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ANNUAL REPORT
OF
OCEANOGRAPHIC OBSERVATIONS
VOLUME 29

해양조사연보

제 29 권
1980

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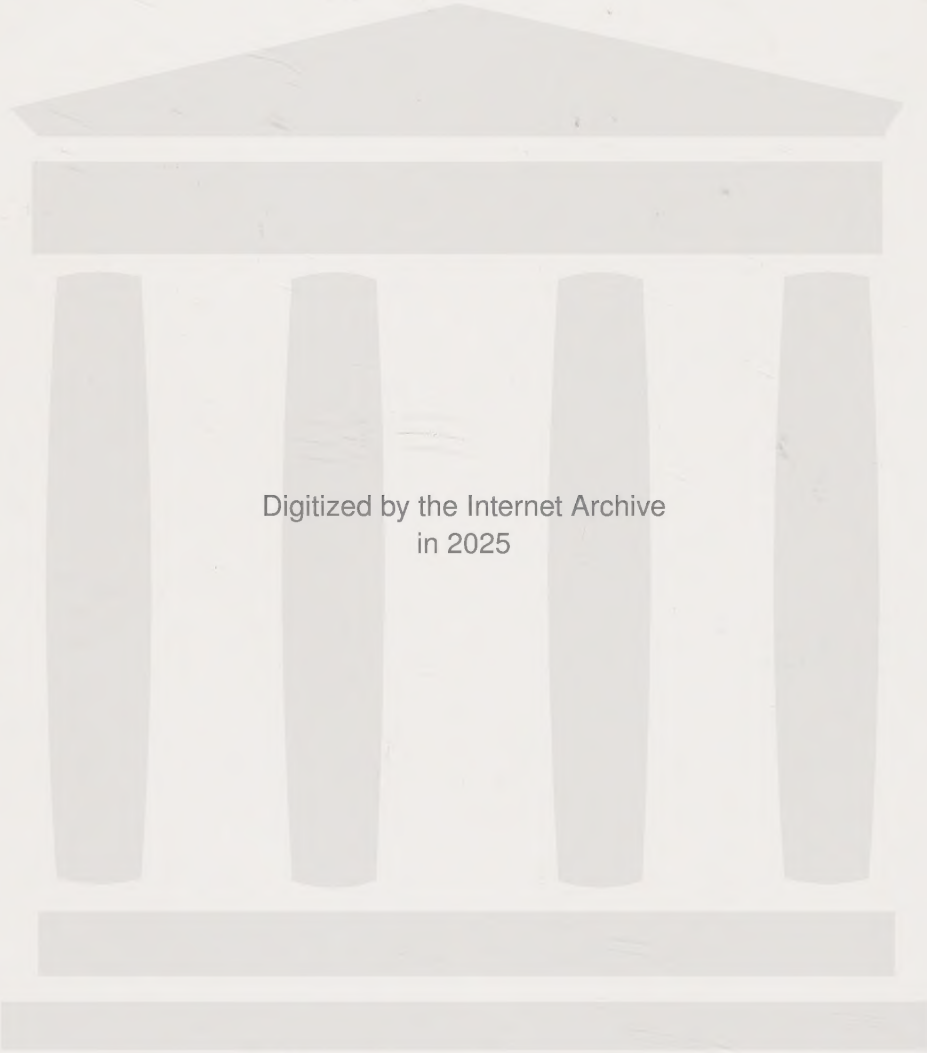
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National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii

국립수산진흥원
Fisheries Research and Development Agency

Busan, Korea

March , 1982



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국 립 수 산 진 흥 원
Fisheries Research and Development Agency
Busan, Korea
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국민교육헌장

우리는 민족중흥의 역사적 사명을 띠고 이 땅에 태어났다. 조상의 빛난 얼을 오늘에 되살려, 안으로 자주 독립의 자세를 확립하고, 밖으로 인류 공영에 이바지 할 때다. 이에, 우리의 나아갈 바를 밝혀 교육의 지표로 삼는다.

성실한 마음과 튼튼한 몸으로, 학문과 기술을 배우고 익히며, 타고난 저마다의 소질을 계발하고 우리의 처지를 약진의 발판으로 삼아, 창조의 힘과 개척의 정신을 기른다. 공익과 질서를 앞세우며 능률과 실질을 숭상하고, 경애와 신의에 뿌리박은 상부 상조의 전통을 이어받아, 명랑하고 따뜻한 협동정신을 북돋운다. 우리의 창의와 협력을 바탕으로 나라가 발전하며 나라의 융성이 나의 발전의 근본임을 깨달아, 자유와 권리에 따르는 책임과 의무를 다하며, 스스로 국가 건설에 참여하고 봉사하는 국민 정신을 드높인다.

반공 민주정신에 투철한 애국애족이 우리의 삶의 길이며, 자유세계의 이상을 실현하는 기반이다. 길이 후손에 물려줄 영광된 통일 조국의 앞날을 내다보며, 신념과 긍지를 지닌 근면한 국민으로서 민족의 슬기를 모아 줄기찬 노력으로, 새 역사를 창조하자.

資 料 및 方 法

本 年報에 收錄된 資料는 1980 年 當院에서 調査한 定線海洋觀測資料
와 沿岸定地海洋觀測資料, 其他資料를 다음과 같이 綜合하였다.

第一編： 沿岸定地 海洋觀測成績

1980 年 韓國근해의 41 개 연안정지관측점에서 매일 1 회 (10 시) 수
온, 기온 및 기상조사를 실시한 자료중에서 표면 수온의 매순별 평균치
를 산출하여 수록하였다.

第二編： 定線海洋觀測成績

1980 年 韓國근해의 정선 20 개선 (東海：7 개선, 南海：7 개선, 西海：
6 개선) 에서 격월로 실시한 정선해양관측조사자료와 특수해양조사 자료를
수록하였다.

1980년도 정선해양관측자료는 총무처 정부전자계산소의 협조를 받아서 전자계산기 (UNIVAC 1106)로서 관측자료의 표준화처리 및 역학계산을 실시 수록하였다.

第三編： 韓日共同海洋觀測成績

한일공동해양관측점의 한국측 63개 정점에서 “第二編”의 정선해양관측과 중복되지 않는 12개 정점에 대한 자료를 수록하였으며 자료의 처리는 第二編과 동일하다.

第四編： 浮游生物調査成績

정선해양관측시 Norpac Net로 채집된 부유생물 시료를 대형인 강장류, 갑각류 및 피낭류등을 제거한후 용적측정법에 의한 침전량과 중량측정법에 의한 습중량을 측정하였으며 Copepoda, Chaetognatha, Amphipoda, Euphausiacea 등을 제수표시하였다.

끝으로 정선해양관측자료의 표준화 처리 및 역학계산에 협조하여 주신 총무처 정부전자계산소 정충구, 정좌진씨에게 사의를 표합니다.

資 料 調 査 및 編 輯

해 양 조 사 과	수 산 기 정	이 창 기
	수 산 연 구 관	방 극 순
	〃	김 복 기 (편 집)
	수 산 연 구 사	권 선 원
	〃	박 상 정
	〃	김 양 섭
	〃	오 창 업
	〃	송 재 선
	수 산 연 구 원	최 순 호
포 항 지 원	〃	김 운 학
	수 산 기 정	서 학 근
	수 산 연 구 관	손 무 익
	수 산 연 구 사	손 송 정
	수 산 기 사 보	김 흥 섭
주 문 진 지 원	수 산 연 구 관	전 승 관
	〃	백 국 기
	수 산 연 구 사	조 석 현
군 산 지 원	수 산 기 정	이 생 동
	수 산 연 구 관	노 용 길
	수 산 연 구 사	김 선 응

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범 례

○ 정선해양관측자료

표 제 (표면 환경 정보)

위 치 : 한국 정선해양관측점 번호

위 도 : 북위 도수와 분, 1/10 분 표시

36-30.5.N → 36°30'30" N

경 도 : 동경 도수와 분, 1/10 분

일 자 : 대한민국 표준시에 의거한 년, 월, 일

시 각 : 동경 135°의 자오선을 기준한 대한민국 표준시

수 심 : 저층까지의 총깊이 (m 표시)

수 색 : Forel 수색표준액의 수색번호 (1- 11)

투명도 : 직경 30 cm의 백색 투명도판에 의한 측정 (m 표시)

파 랑 : 방향은 16 방위 (자침 방위)

계급은 10 계급법 (0 ~ 9) 으로 표시

너 율 : 방향은 파랑과 동일, 계급은 4 계급법 (0 ~ 3) 으로 표시

바 람 : 방향은 16 방위 (자침 방위)

계급은 Beaufort 풍력계급으로 표시

기 압 : Aneroid 기압계에 의해 mb 로 표시

기 온 : 건구온도와 습구온도를 각각 °C 로 표시

천 기 : 천기는 현재상태를 아래와 같이 표시

왜청(B) : 운량 0~2 , 개임(BC) : 운량 3~7 ,

흐림(C) : 운량 8~10, 비(R), 안개(F), 눈(S)

구 름 : 운형은 10 종운형법으로 관측

운량은 천공의 10 등분법에 의하여 목적

관 측 (표면하 관측)

수 심 : 자료 채집 수직 (m)

수 온 : 전도온도계로 측정하여 $1/100\text{ }^{\circ}\text{C}$ 까지 표시

염 분 : 전기전도도 염분계로 측정하고 천분율 (‰) 로 표시

산 소 : 원클러방법으로 측정하고 ml/ℓ 로 표시

보 사 법

수 심 : 표준층의 수심 (m)

수온, 염분, 산소 : 관측자료를 표준층에 일치

계 산

밀 도 : g/ℓ 로 표시

D - T : Thermosteric anomaly $10^{-5} \text{ cm}^3/g$

S V A : 현장비용 anomaly $10^{-5} \text{ cm}^3/g$

D-DY : 역학심도 anomaly

EXPLANATION

SERIAL OCEANOGRAPHIC STATION DATA

Heading (Surface environmental information)

STATION	:	Ship station number given by numeric arabian numbers as assigned by the originator.
LATITUDE	:	Given in degrees, minutes and tenths of minutes with hemisphere indicated by N.
LONGITUDE	:	Given in degrees, minutes and tenths of minutes with hemisphere indicated by E.
DATE	:	Given in month and day as determined by KST.
TIME	:	Time of the beginning of observation given in hour and minute by KST referred to the meridian of 135° E.
DEPTH	:	Depth to bottom given in whole meters.
COLOR	:	Water color given according to Forel scale (1 ~ 11)
TRANS	:	Transparency given in whole meters as determined by Secchi disc.
WAVE DIR/A	:	Direction of wind waves given in 16 point scale of the compass bearing, from which dominant waves are coming, and sea state(A) according to WMO code 3700 (Scale 0 ~ 9)
SWELL DIR/A	:	Direction of swell given in 16 point scale of the compass bearing, from which dominant wave are coming, and sea state (A) according scale 0 ~ 3
WIND DIR/F	:	Direction of wind given in 16 point scale of the compass bearing from which wind is blowing, and wind force (F) in Beaufort scale
BARO	:	Barometric pressure given in millibars
AIR TEMP DAY	:	Dry-bulb temperature given in degrees celsius.
WET	:	Wet-bulb temperature given in degrees celsius.

WEATHER : Recorded in present weather : the abbreviations
and the cloud cover areas are as follows :

B : 0 ~ 2, BC : 3 ~ 7, C : 8 ~ 10, R : Rain

F : Fog, S : Snow

CLOUD T : Cloud type recorded in ten type of the cloud.

A : Cloud amount recorded in tenths of whole sky
covered.

Observed (Subsurface observation)

DEPTH : Depth of sample given in whole meters.

TEMP : Temperature given in degrees celsius.

SAL : Salinity given in parts per thousand as determined by the inductive salinometer.

O₂ : Dissolved oxygen given in milliliters per liter
as determined by the winkler method.

Interpolated

DEPTH : Standard depths (IAPSO equivalent) given in whole
meters.

TEMP, SAL, O₂ : Corresponding to the explanation of observer data.

Calculated

SIGMA-T : Given in grams per liter.

D-T : Thermobaric anomaly (D-T) given in $10^{-5} \text{cm}^3/\text{g}$.

SVA : Specific volume anomaly (SVA) given in $10^{-5} \text{cm}^3/\text{g}$.

D-DY : Dynamic depth anomaly (D-DY) given in dynamic
meters.

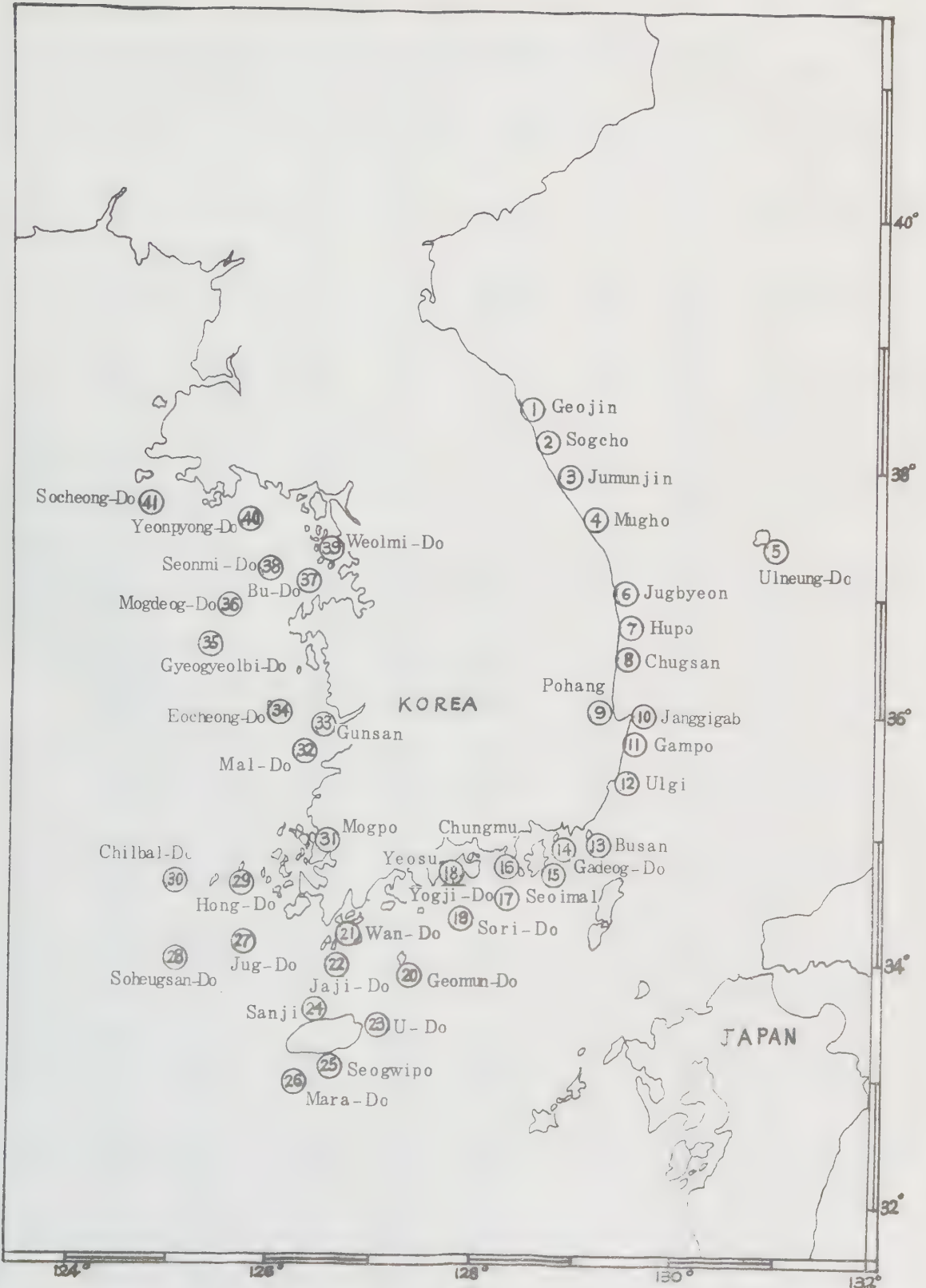
제 1 편

연안정지해양관측성적

PART 1

COASTAL OCEANOGRAPHIC DATA

1980



연안정지 해양관측점 위치도

Location of the Shors Stations

연 안 정 지 월 별 표 면 수 온
Surface Water Temperature of the Shore Stations

월 Month	관측점 Station Ten day	① 포진 Po-jin	② 속초 Sogcho	③ 주문진 Jumunjin	④ 묵호 Mugho	⑤ 울릉도 Ulneung-Do	⑥ 속변 Jugbyeon	⑦ 리포 Ripo	
1월 Jan.	상순	1st	9.78	3.52	11.41	11.40	12.52	13.24	12.20
	중순	2nd	9.43	2.59	10.49	9.75	12.02	11.72	10.50
	하순	3rd	9.32	2.96	10.17	9.08	11.50	11.63	10.27
	월평균	Mean	9.51	2.69	10.69	10.08	12.01	12.20	10.98
2월 Feb.	상순	1st	6.23	-1.20	8.06	7.92	11.36	9.48	7.80
	중순	2nd	3.25	-0.69	7.78	7.97	8.57	8.47	8.35
	하순	3rd	5.27	-2.49	8.22	8.14	8.72	8.74	9.83
	월평균	Mean	4.92	-0.07	8.02	8.01	9.55	8.90	8.66
3월 Mar.	상순	1st	5.94	2.74	7.96	7.54	8.97	9.52	10.20
	중순	2nd	5.16	3.05	7.70	7.95	9.68	9.77	10.55
	하순	3rd	5.54	3.33	8.47	8.66	10.03	9.90	11.14
	월평균	Mean	5.55	3.04	8.04	8.05	9.56	9.73	10.63
4월 Apr.	상순	1st	5.71	4.81	9.35	9.65	10.34	10.61	10.45
	중순	2nd	6.58	8.71	8.66	9.49	10.50	10.37	10.35
	하순	3rd	7.45	9.37	9.04	8.48	10.79	11.45	10.05
	월평균	Mean	6.58	7.64	9.02	9.21	10.54	10.81	10.28
5월 May	상순	1st	9.35	12.19	11.15	12.48	12.05	12.27	10.70
	중순	2nd	11.59	13.87	11.74	12.80	13.83	12.78	11.25
	하순	3rd	12.73	14.84	11.73	10.76	15.47	11.07	12.23
	월평균	Mean	11.22	13.63	11.54	12.01	13.78	12.04	11.39
6월 Jun.	상순	1st	13.11	14.93	13.92	13.91	16.69	11.01	16.35
	중순	2nd	14.92	18.76	15.48	15.41	17.58	15.88	17.41
	하순	3rd	16.61	19.54	16.79	15.04	19.54	16.47	17.42
	월평균	Mean	14.88	17.74	15.40	14.78	17.94	14.45	17.05
7월 Jul.	상순	1st	16.96	19.66	18.59	17.73	19.59	16.12	19.66
	중순	2nd	18.40	19.68	18.54	18.60	21.14	17.48	20.92
	하순	3rd	18.71	19.96	19.32	19.17	21.49	17.00	19.41
	월평균	Mean	18.02	19.77	18.82	18.50	20.74	16.87	20.00
8월 Aug.	상순	1st	20.17	20.94	20.67	21.17	21.82	18.84	20.80
	중순	2nd	20.46	21.10	21.15	21.30	22.23	21.24	22.00
	하순	3rd	20.58	21.20	20.15	21.49	22.09	21.24	21.73
	월평균	Mean	20.40	21.08	20.90	21.32	22.05	20.44	21.51
9월 Sep.	상순	1st	20.53	20.16	20.60	20.89	22.08	22.07	22.55
	중순	2nd	20.11	19.54	20.31	20.45	20.40	21.61	22.20
	하순	3rd	19.02	18.90	19.67	20.31	20.75	21.12	21.45
	월평균	Mean	19.89	19.53	20.19	20.55	21.06	21.60	22.07
10월 Oct.	상순	1st	18.47	18.55	18.85	18.74	20.08	20.33	19.90
	중순	2nd	17.62	17.22	17.91	17.25	19.24	18.68	19.10
	하순	3rd	14.14	13.85	14.85	15.95	18.42	17.84	18.40
	월평균	Mean	16.74	16.54	17.20	17.31	19.25	18.95	19.13
11월 Nov.	상순	1st	12.43	11.90	14.44	14.78	16.05	15.31	15.65
	중순	2nd	12.34	12.04	13.93	12.84	14.60	14.29	14.02
	하순	3rd	11.75	11.44	12.73	12.93	13.69	14.14	14.40
	월평균	Mean	12.17	11.79	13.70	13.52	14.78	14.58	14.69
12월 Dec.	상순	1st	6.71	7.86	10.86	11.18	12.60	12.47	11.20
	중순	2nd	5.64	5.88	10.25	9.44	12.35	10.77	9.10
	하순	3rd	3.85	3.73	7.25	8.11	10.20	10.38	8.91
	월평균	Mean	5.40	5.83	9.45	9.58	11.72	11.21	9.74
년 Year	년 평균	12.11	11.62	13.58	13.60	15.25	14.32	14.68	

월 Month	관측점 Station Ten day	8) 축 산 Chugsan	9) 포 항 Pohang	10) 장 기 갑 Janggigab	11) 감 · 포 Gampo	12) 울 기 Ulgi	13) 부 산 Busan	14) 가 덕 도 Gadeog-Do
1 월 Jan.	상 중 하 월 평 균 1st 2nd 3rd Mean	12.16 11.48 10.53 11.39	10.26 8.37 8.54 9.06	11.54 9.13 9.01 9.89	13.65 12.00 11.55 12.40	13.65 12.97 12.14 12.92	12.23 11.70 11.23 11.72	12.17 12.04 11.26 11.82
2 월 Feb.	상 중 하 월 평 균 1st 2nd 3rd Mean	9.13 8.10 9.87 9.03	6.31 7.68 9.79 7.93	7.08 7.86 9.54 8.16	10.34 10.65 10.80 10.60	11.80 9.85 11.52 11.06	9.44 9.53 11.16 10.04	10.32 9.18 9.96 9.82
3 월 Mar.	상 중 하 월 평 균 1st 2nd 3rd Mean	9.75 10.38 10.45 10.19	10.09 10.33 10.93 10.45	10.21 10.42 10.18 10.27	11.34 12.04 11.96 11.78	12.52 13.64 12.63 13.26	11.80 12.76 12.46 12.34	10.79 10.94 11.35 11.03
4 월 Apr.	상 중 하 월 평 균 1st 2nd 3rd Mean	10.81 10.88 11.78 11.16	11.67 11.26 11.59 11.51	11.29 11.35 11.38 11.34	11.97 12.16 12.63 12.25	13.74 13.81 13.52 13.69	13.49 13.51 14.38 13.79	11.88 12.50 13.66 12.68
5 월 May	상 중 하 월 평 균 1st 2nd 3rd Mean	10.97 12.29 12.93 12.06	10.05 10.87 11.95 10.96	12.94 13.25 15.37 13.85	13.42 13.29 14.05 13.59	13.97 14.45 14.84 14.32	14.83 15.03 15.58 15.15	14.60 14.81 16.77 15.39
6 월 Jun.	상 중 하 월 평 균 1st 2nd 3rd Mean	12.87 15.38 18.49 15.58	13.48 15.22 17.39 15.36	15.36 17.33 18.03 16.91	14.50 13.91 14.65 14.35	15.50 15.92 16.13 15.85	16.20 16.69 17.64 16.84	16.73 16.36 18.24 17.11
7 월 Jul.	상 중 하 월 평 균 1st 2nd 3rd Mean	19.24 19.90 18.77 19.30	19.78 20.90 18.21 19.63	19.21 20.29 20.15 19.88	18.54 18.66 17.96 18.39	18.74 19.38 19.34 19.15	18.00 18.34 20.20 18.85	18.51 19.68 21.35 19.85
8 월 Aug.	상 중 하 월 평 균 1st 2nd 3rd Mean	20.87 21.42 22.14 21.48	20.99 22.23 22.90 22.04	20.87 22.00 22.56 21.81	21.74 22.30 22.84 22.29	21.32 23.19 23.76 22.76	21.51 22.74 23.01 22.42	21.57 22.41 23.31 22.43
9 월 Sep.	상 중 하 월 평 균 1st 2nd 3rd Mean	23.01 22.99 21.70 22.57	23.15 21.99 21.55 22.23	22.42 21.11 19.18 20.90	23.27 22.49 21.72 22.49	22.73 22.12 22.16 22.34	22.98 21.92 21.61 22.17	23.04 21.63 21.23 21.97
10 월 Oct.	상 중 하 월 평 균 1st 2nd 3rd Mean	20.72 19.25 18.00 19.32	20.94 19.36 17.08 19.13	20.34 19.05 15.64 18.34	20.78 19.70 17.42 19.30	20.50 19.48 17.49 19.16	20.78 19.90 16.91 19.20	20.56 19.60 17.38 19.18
11 월 Nov.	상 중 하 월 평 균 1st 2nd 3rd Mean	15.61 14.96 14.19 14.92	14.69 13.07 13.50 13.75	14.04 12.70 13.33 13.36	16.32 15.00 16.02 15.78	15.68 14.55 15.72 15.32	15.03 14.93 15.18 15.05	15.41 14.59 14.88 14.96
12 월 Dec.	상 중 하 월 평 균 1st 2nd 3rd Mean	8.88 9.64 9.94 9.49	10.64 9.74 7.58 9.32	9.77 8.26 7.99 8.67	14.11 12.51 12.30 12.97	13.66 13.94 13.71 13.77	14.34 11.66 10.30 12.10	13.89 11.51 11.18 12.21
년 Year	년 평 균	14.71	14.28	14.45	15.52	16.13	15.81	15.70

월 Month	관측점 Station 순 Ten day	15 서이말 Seoimal	16 충무 Chungmu	17 육서도 Yogji-Do	18 여수 Yeosu	19 소리도 Sori-Do	20 거문도 Geomun-Do	21 완도 Wan-Do
1월 Jan.	상순	13.93	8.27	12.00	8.03	13.73	15.09	-
	중순	12.76	6.45	11.10	6.48	12.02	14.64	-
	하순	11.83	5.56	10.72	5.58	11.29	15.01	-
	월평균	12.84	6.76	11.27	6.70	12.35	14.91	-
	Mean							
2월 Feb.	상순	11.02	4.78	9.80	4.75	10.40	14.63	5.33
	중순	10.64	4.99	10.40	4.24	9.31	12.97	5.33
	하순	11.30	7.90	10.44	5.68	10.22	12.23	7.31
	월평균	10.99	5.89	10.21	4.89	9.98	13.28	5.99
	Mean							
3월 Mar.	상순	12.31	9.54	10.60	7.23	10.50	12.15	8.10
	중순	12.61	9.91	12.00	8.59	10.91	12.22	9.70
	하순	12.49	10.69	12.60	9.50	11.36	12.33	10.59
	월평균	12.47	10.05	11.73	8.44	10.92	12.23	9.46
	Mean							
4월 Apr.	상순	12.88	12.92	12.70	11.28	11.51	12.67	11.35
	중순	13.16	13.57	12.60	12.47	11.77	12.26	13.06
	하순	13.46	14.84	12.90	13.60	12.50	13.10	14.00
	월평균	13.17	13.78	12.73	12.45	11.93	12.68	12.80
	Mean							
5월 May	상순	13.90	16.16	14.00	14.86	13.16	13.61	14.25
	중순	14.31	16.75	14.70	16.05	14.22	11.84	15.13
	하순	14.77	18.19	15.30	17.12	15.58	13.79	15.50
	월평균	14.33	17.03	14.70	16.01	14.32	13.08	14.96
	Mean							
6월 Jun.	상순	14.89	18.73	16.93	18.43	15.79	14.30	17.00
	중순	14.87	19.28	17.32	19.39	17.82	14.45	17.95
	하순	15.68	19.65	17.59	19.91	17.97	16.00	18.70
	월평균	15.15	19.22	17.28	19.24	17.19	14.92	17.88
	Mean							
7월 Jul.	상순	16.26	19.32	19.33	20.31	18.38	16.75	18.63
	중순	18.67	19.61	20.04	21.21	19.45	17.94	19.76
	하순	19.88	22.09	21.60	22.65	20.41	19.21	21.45
	월평균	18.27	20.34	20.32	21.39	19.41	17.97	19.95
	Mean							
8월 Aug.	상순	22.54	21.43	21.88	21.90	21.79	21.43	-
	중순	22.92	22.80	23.31	22.54	23.23	22.23	-
	하순	22.49	23.00	24.07	23.73	23.33	23.67	-
	월평균	22.65	22.41	23.09	22.72	22.78	22.44	-
	Mean							
9월 Sep.	상순	23.12	23.57	23.97	24.18	23.28	23.86	-
	중순	22.32	21.77	22.87	23.71	23.18	22.70	-
	하순	22.07	21.66	21.75	22.22	22.30	20.36	-
	월평균	22.51	22.33	22.87	23.04	22.92	22.31	-
	Mean							
10월 Oct.	상순	20.63	20.99	20.90	21.53	21.32	20.11	-
	중순	20.05	19.60	19.90	20.43	20.42	19.90	-
	하순	16.79	17.45	17.91	18.32	17.54	19.19	-
	월평균	19.16	19.35	19.57	20.09	19.76	19.73	-
	Mean							
11월 Nov.	상순	14.85	15.29	16.15	15.61	15.53	15.81	-
	중순	14.56	14.19	15.05	14.27	14.07	14.63	-
	하순	15.08	13.96	14.65	13.68	13.72	14.38	-
	월평균	14.83	14.48	15.28	14.52	14.44	14.94	-
	Mean							
12월 Dec.	상순	14.66	11.24	-	12.11	13.31	14.26	-
	중순	13.61	8.48	-	8.92	12.42	15.00	-
	하순	12.99	6.74	-	6.55	10.26	11.20	-
	월평균	13.75	8.82	-	9.19	11.87	14.49	-
	Mean							
Year	년 평균	15.84	15.04	(16.28)	14.89	15.66	16.08	

월 Month	관측점 Station 순 Ten day	(22) 자 지 도 Jaji - Do	(23) 우 도 U - Do	(24) 산 지 Sanji	(25) 서귀포 Seogwipo	(26) 마라도 Mara - Do	(27) 죽 도 Jug - Do	(28) 소흑산도 Soheugsan-Do
1월 Jan.	상	10.42	16.30	15.96	16.70	16.69	12.63	12.05
	중	10.03	15.86	12.99	15.60	15.73	11.70	11.33
	하	9.75	15.85	11.41	16.69	15.15	9.95	10.44
	월 평균 Mean	10.07	16.00	13.45	15.80	15.86	11.43	11.27
2월 Feb.	상	9.21	15.43	10.62	14.19	13.67	8.73	9.38
	중	9.44	14.87	12.07	14.13	12.60	8.11	9.63
	하	9.29	15.00	13.06	14.00	13.47	7.87	9.69
	월 평균 Mean	9.31	15.08	11.95	14.11	13.25	8.23	9.57
3월 Mar.	상	9.55	14.70	13.18	13.86	13.59	8.10	8.84
	중	10.36	14.57	12.88	13.88	13.50	9.60	9.11
	하	11.59	14.24	13.14	14.58	13.94	11.11	9.33
	월 평균 Mean	10.50	14.50	13.07	14.11	13.68	9.50	9.09
4월 Apr.	상	12.43	14.11	13.36	15.29	14.67	11.39	8.79
	중	13.15	14.07	13.97	16.20	15.12	11.55	9.59
	하	14.22	14.12	14.65	16.19	15.26	11.89	11.63
	월 평균 Mean	13.27	14.10	13.99	15.89	15.02	11.61	10.00
5월 May	상	14.31	14.54	15.04	16.33	15.87	12.35	11.40
	중	13.73	14.96	16.33	16.70	16.03	13.16	11.31
	하	14.63	15.21	16.75	17.57	16.41	13.67	12.16
	월 평균 Mean	14.22	14.94	16.04	16.87	16.10	13.06	11.62
6월 Jun.	상	15.09	17.61	18.26	17.93	18.00	14.48	13.55
	중	15.41	17.93	18.99	18.04	19.63	15.34	14.31
	하	15.63	19.37	18.86	19.17	20.18	16.08	16.02
	월 평균 Mean	15.38	18.30	18.70	18.38	19.37	15.30	14.63
7월 Jul.	상	15.66	20.02	18.89	20.09	21.42	16.38	21.41
	중	16.46	20.09	19.21	20.63	23.35	16.55	20.03
	하	18.34	21.72	19.57	21.88	24.58	17.28	20.29
	월 평균 Mean	16.82	20.61	19.23	20.87	23.12	16.74	20.58
8월 Aug.	상	18.89	23.26	19.79	23.53	25.11	17.88	22.23
	중	21.35	23.83	20.51	23.66	24.83	20.70	22.59
	하	22.76	24.37	21.76	24.18	24.81	21.20	22.19
	월 평균 Mean	21.00	23.82	20.69	23.80	24.92	19.93	22.31
9월 Sep.	상	22.15	23.40	22.16	23.81	24.27	20.15	22.87
	중	20.78	23.25	22.41	23.31	23.64	21.43	18.77
	하	20.43	23.14	22.70	22.14	22.42	19.63	19.01
	월 평균 Mean	21.12	23.26	22.42	23.09	23.44	20.40	20.22
10월 Oct.	상	19.15	22.31	22.02	21.72	22.01	18.24	18.42
	중	17.59	21.09	20.96	20.97	21.02	17.50	18.27
	하	15.83	20.03	20.49	19.04	18.84	18.00	15.86
	월 평균 Mean	17.52	21.14	21.20	20.58	20.62	17.91	17.50
11월 Nov.	상	15.24	19.65	19.85	17.97	19.71	15.08	14.28
	중	14.53	19.25	19.44	17.88	18.76	14.45	14.24
	하	13.55	18.57	19.32	17.75	17.83	13.50	14.49
	월 평균 Mean	14.44	19.16	19.54	17.87	18.77	14.34	14.34
12월 Dec.	상	12.36	18.04	19.67	16.94	17.01	13.36	13.07
	중	10.72	17.18	19.65	15.86	16.47	12.06	11.79
	하	9.12	15.30	19.70	15.78	15.02	12.03	10.65
	월 평균 Mean	10.73	16.84	19.67	16.19	16.17	12.48	11.84
년 Year	년 평균	14.53	18.15	17.50	18.13	18.36	14.24	14.41

월 Month	관측점 Station		②⑨ 홍도 Hong-Do	③⑩ 칠발도 Chilbal-Do	③① 목포 Mogpo	③② 말도 Mal-Do	③③ 군산 Gunsan	③④ 어청도 Eocheong-Do	③⑤ 거열비도 Gyeogyeolbi-Do
	순 Ten day								
1월 Jan.	상 상	1st	10.89	7.90	7.64	7.64	3.90	9.27	7.84
	중 중	2nd	10.50	7.24	6.19	4.70	1.64	7.83	6.00
	하 하	3rd	9.47	6.06	5.58	3.40	1.80	6.90	5.37
	월 월	Mean	10.29	7.07	6.47	5.25	2.45	8.00	6.40
2월 Feb.	상 상	1st	7.47	4.99	3.95	3.28	0.69	5.98	4.32
	중 중	2nd	7.44	4.98	3.51	3.00	0.95	4.84	2.78
	하 하	3rd	7.42	5.56	4.84	3.42	3.92	4.03	3.16
	월 월	Mean	7.44	5.18	4.10	3.23	1.85	4.95	3.42
3월 Mar.	상 상	1st	7.54	6.26	6.47	4.32	5.73	4.20	3.58
	중 중	2nd	7.16	6.84	7.03	4.84	7.43	4.36	3.61
	하 하	3rd	7.24	7.08	7.68	5.57	7.97	4.74	4.10
	월 월	Mean	7.31	6.72	7.08	4.91	7.04	4.43	3.76
4월 Apr.	상 상	1st	7.66	7.86	9.98	6.30	10.67	5.58	4.84
	중 중	2nd	8.64	9.06	11.45	7.44	13.24	6.55	5.57
	하 하	3rd	9.58	9.82	12.35	8.07	13.64	7.48	6.61
	월 월	Mean	8.63	8.91	11.26	7.27	12.51	6.54	5.67
5월 May	상 상	1st	11.71	10.25	14.02	9.08	15.67	7.79	7.21
	중 중	2nd	12.38	10.81	15.24	10.79	17.52	8.75	8.16
	하 하	3rd	13.25	11.20	16.73	12.09	19.15	10.35	10.37
	월 월	Mean	12.45	10.75	15.33	10.65	17.45	8.96	8.58
6월 Jun.	상 상	1st	14.78	11.84	18.50	13.85	20.92	12.26	12.06
	중 중	2nd	14.91	14.92	19.63	15.09	22.93	13.85	15.12
	하 하	3rd	15.41	16.40	20.78	16.09	23.35	17.10	16.93
	월 월	Mean	15.03	14.39	19.64	15.01	22.40	14.40	14.70
7월 Jul.	상 상	1st	15.11	16.93	20.29	17.16	22.94	18.97	17.00
	중 중	2nd	17.12	17.22	22.00	18.94	23.93	20.46	19.13
	하 하	3rd	20.23	17.85	23.16	19.79	24.60	21.35	19.61
	월 월	Mean	17.49	17.33	21.86	18.63	23.82	20.26	18.58
8월 Aug.	상 상	1st	20.19	18.89	22.71	20.27	24.40	21.14	20.75
	중 중	2nd	21.35	19.70	22.95	21.00	25.00	21.46	22.68
	하 하	3rd	20.85	20.59	23.60	22.02	24.91	21.97	22.67
	월 월	Mean	20.80	19.73	23.09	21.10	24.76	21.52	22.03
9월 Sep.	상 상	1st	20.80	20.13	23.28	22.71	24.38	21.48	23.19
	중 중	2nd	19.88	19.76	22.19	21.51	23.00	20.66	20.68
	하 하	3rd	17.25	19.70	20.93	20.59	21.76	19.06	19.30
	월 월	Mean	19.31	19.86	22.13	21.60	23.05	20.40	21.56
10월 Oct.	상 상	1st	16.40	19.35	20.42	18.59	20.62	16.91	19.59
	중 중	2nd	15.79	18.34	19.26	18.23	19.33	15.42	17.88
	하 하	3rd	14.59	16.57	16.76	15.37	14.44	13.71	16.03
	월 월	Mean	15.59	18.09	18.81	17.40	18.13	15.35	17.83
11월 Nov.	상 상	1st	13.96	15.09	14.34	14.09	11.95	12.80	14.80
	중 중	2nd	12.70	14.18	13.26	13.83	11.03	12.12	13.55
	하 하	3rd	12.31	13.14	13.23	13.14	11.50	11.92	12.69
	월 월	Mean	12.99	14.14	13.61	13.69	11.49	12.28	13.68
12월 Dec.	상 상	1st	11.41	11.68	11.18	9.59	7.88	10.88	11.40
	중 중	2nd	10.73	9.61	8.61	8.39	5.22	9.72	9.32
	하 하	3rd	9.67	7.02	6.09	5.89	2.21	7.25	7.70
	월 월	Mean	10.60	9.44	8.63	7.96	5.10	9.28	9.47
년 Year	년 년	평 평	13.16	12.63	14.33	12.23	14.17	12.20	12.14

월 Month	순 Ten day	관측소 Station	(36) 목격도 Mogdeog-Do	(37) 부도 Bu-Do	(38) 선미도 Seonmi-Do	(39) 월미도 Weolmi-Do	(40) 연평도 Yeonpyong-Do	(41) 소청도 Socheong-Do
1월 Jan.	상 중 하 월 평 평균	1st 2nd 3rd Mean	5.33 4.17 3.45 4.31	5.69 4.13 2.70 4.17	5.77 4.19 3.22 4.39	4.13 1.57 1.83 2.51	3.48 1.52 0.95 1.98	7.07 5.65 4.95 5.89
2월 Feb.	상 중 하 월 평 평균	1st 2nd 3rd Mean	3.57 2.27 1.50 2.45	1.24 0.81 0.96 1.00	1.92 1.25 1.19 1.45	-0.19 -0.22 1.47 0.35	0.34 0.50 1.39 0.74	4.22 3.32 3.26 3.60
3월 Mar.	상 중 하 월 평 평균	1st 2nd 3rd Mean	2.56 2.87 3.62 3.01	1.84 2.55 3.48 2.62	2.66 3.42 4.69 3.59	2.83 4.30 4.76 3.96	2.86 4.53 5.30 4.23	3.83 4.08 4.77 4.21
4월 Apr.	상 중 하 월 평 평균	1st 2nd 3rd Mean	5.86 6.36 6.97 6.40	4.68 5.52 6.65 5.62	5.20 6.69 7.84 6.58	6.40 8.11 9.79 8.10	6.64 7.72 9.67 8.01	5.50 6.12 6.51 6.04
5월 May	상 중 하 월 평 평균	1st 2nd 3rd Mean	7.78 9.18 10.90 9.29	8.31 10.55 11.56 10.14	9.17 10.10 11.79 10.35	11.56 13.13 15.54 13.41	13.32 14.01 14.94 14.09	7.16 8.09 8.95 8.07
6월 Jun.	상 중 하 월 평 평균	1st 2nd 3rd Mean	11.87 14.09 15.61 13.86	12.54 13.95 15.99 14.16	11.08 14.84 16.69 14.20	17.57 19.05 20.57 19.06	16.86 18.51 19.77 18.38	10.61 13.04 14.29 12.65
7월 Jul.	상 중 하 월 평 평균	1st 2nd 3rd Mean	16.04 16.78 18.26 17.02	17.21 17.38 18.28 17.62	17.57 18.23 19.61 18.47	20.53 21.66 22.55 21.58	20.15 20.90 22.02 21.02	14.91 15.82 18.59 16.44
8월 Aug.	상 중 하 월 평 평균	1st 2nd 3rd Mean	18.75 19.56 19.82 19.38	19.55 20.95 20.90 20.47	20.63 21.24 21.75 21.21	22.63 23.53 23.85 23.34	21.85 23.01 23.07 22.64	19.59 19.89 19.15 19.54
9월 Sep.	상 중 하 월 평 평균	1st 2nd 3rd Mean	19.91 19.78 19.34 19.68	20.94 20.56 20.08 20.53	22.00 21.59 20.97 21.52	23.01 21.69 20.37 21.69	22.80 21.75 20.00 21.52	17.12 16.05 14.64 15.94
10월 Oct.	상 중 하 월 평 평균	1st 2nd 3rd Mean	19.21 18.31 16.37 17.96	19.24 18.05 16.42 17.90	20.21 19.25 17.41 18.96	20.01 18.54 15.40 17.98	19.41 18.08 16.21 17.90	13.75 13.34 11.85 12.98
11월 Nov.	상 중 하 월 평 평균	1st 2nd 3rd Mean	14.02 12.35 12.12 12.83	14.59 13.63 12.08 13.43	14.63 13.09 12.04 13.25	12.48 11.57 11.58 11.88	13.76 11.03 9.70 11.45	10.54 10.24 9.83 10.20
12월 Dec.	상 중 하 월 평 평균	1st 2nd 3rd Mean	10.91 9.30 6.85 9.02	10.24 8.02 5.62 7.96	10.11 8.20 4.74 7.68	8.89 5.60 3.67 6.05	7.56 4.68 2.11 4.78	8.76 7.80 6.38 7.65
년 Year	년 Year	년 Year	11.27	11.30	11.80	12.49	12.23	10.27

연안정지 해양관측점 위치표
Position of the Shore Stations

해역 Region	번호 No.	관측지명 Name of the Station	위치 Position		관측회수 Frequency of Observation	관측개시년월 Data of Inauguration
			북위 Lat. (N)	동경 Long. (E)		
동해안 East Coast	1	거진 Geojin	38°28'30"	128°26'00"	매일 Daily ※	1967. 4
	2	속초 Sogcho	38°12'32"	128°36'18"	매일 Daily "	1967. 4
	3	주문진 Jumunjin	37°53'15"	128°50'00"	매일 Daily "	1952. 8
	4	묵호 Mugho	37°32'58"	129°07'15"	매일 Daily "	1967. 6
	5	울릉도 Ulneung-Do	37°29'00"	130°54'35"	매일 Daily "	1931. 11
	6	죽변 Jugbyeon	37°03'28"	129°26'00"	매일 Daily "	1916. 7
	7	후포 Hupo	36°40'42"	129°27'42"	매일 Daily "	1968. 9
	8	축산 Chugsan	36°30'29"	129°27'37"	매일 Daily "	1968. 4
	9	포항 Pohang	36°02'56"	129°26'10"	매일 Daily "	1946. 7
	10	장기갑 Janggilgab	36°04'35"	129°34'30"	매일 Daily "	1916. 7
	11	감포 Gampo	35°48'20"	129°30'40"	매일 Daily "	1967. 5
	12	울기 Ulgi	35°29'28"	129°26'50"	매일 Daily "	1939. 1
남해안 South Coast	13	부산 Busan	35°05'08"	129°02'07"	매일 Daily "	1925. 3
	14	가덕도 Gadeog-Do	34°59'20"	128°49'50"	매일 Daily "	1930. 1
	15	서이말 Seoimal	34°47'00"	128°44'10"	매일 Daily "	1967. 4
	16	충무 Chungmu	34°49'55"	128°24'40"	매일 Daily "	1979. 5
	17	육지도 Yogji-Do	34°40'50"	128°10'35"	매일 Daily "	1969. 1
	18	여수 Yeosu	34°44'00"	127°44'00"	매일 Daily "	1921. 1
	19	소리도 Sori-Do	34°24'15"	127°48'15"	매일 Daily "	1928. 4
	20	거문도 Geomun-Do	34°00'30"	127°19'15"	매일 Daily "	1916. 7
	21	완도 Wan-Do	34°19'10"	126°45'00"	매일 Daily "	1967. 9
	22	자지도 Jaji-Do	34°05'20"	126°36'15"	매일 Daily "	1928. 4
	23	우도 U-Do	33°29'10"	126°58'10"	매일 Daily "	1967. 4
	24	산지 Sanji	33°31'10"	126°33'00"	매일 Daily "	1923. 10
	25	서귀포 Seogwipo	33°13'30"	126°34'45"	매일 Daily "	1963. 1
	26	마라도 Mara-Do	33°06'45"	126°06'45"	매일 Daily "	1923. 10
서해안 West Coast	27	죽도 Jug-Do	34°13'30"	125°51'00"	매일 Daily "	1916. 7
	28	소흑산도 Soheugsan-Do	34°05'30"	125°06'05"	매일 Daily "	1925. 10
	29	홍도 Hong-Do	34°42'30"	125°13'00"	매일 Daily "	1933. 1
	30	칠발도 Chilbal-Do	34°47'25"	125°47'30"	매일 Daily "	1967. 5
	31	목포 Mogpo	34°46'40"	126°23'05"	매일 Daily "	1928. 8
	32	말도 Mal-Do	35°51'15"	126°19'10"	매일 Daily "	1967. 4
	33	군산 Gunsan	35°59'15"	126°43'00"	매일 Daily "	1939. 4
	34	어청도 Eocheong-Do	36°06'40"	125°59'15"	매일 Daily "	1916. 7
	35	격렬비도 Gyeogyeolbi-Do	36°37'15"	125°33'20"	매일 Daily "	1916. 7
	36	목덕도 Mogdeog-Do	36°55'40"	125°45'30"	매일 Daily "	1967. 9
	37	부도 Bu-Do	37°08'40"	126°21'00"	매일 Daily "	1926. 1
	38	선미도 Seonmi-Do	37°17'10"	126°04'45"	매일 Daily "	1967. 7
	39	월미도 Weolmi-Do	37°28'25"	126°36'30"	매일 Daily "	1967. 4
	40	연평도 Yeonpyeong-Do	37°38'55"	125°41'10"	매일 Daily "	1967. 5
	41	소청도 Socheong-Do	37°45'00"	124°44'00"	매일 Daily "	1916. 7

※ 매일 오전 10시 관측, At 10 a.m. everywhere

제 2 편

정 선 해 양 관 측 성 적
(수온, 염분, 산소 및 기상관측자료)

PART 2

SECTIONAL OCEANOGRAPHIC DATA

(Temperature, Salinity, Oxygen and Meteorological Data)

1980

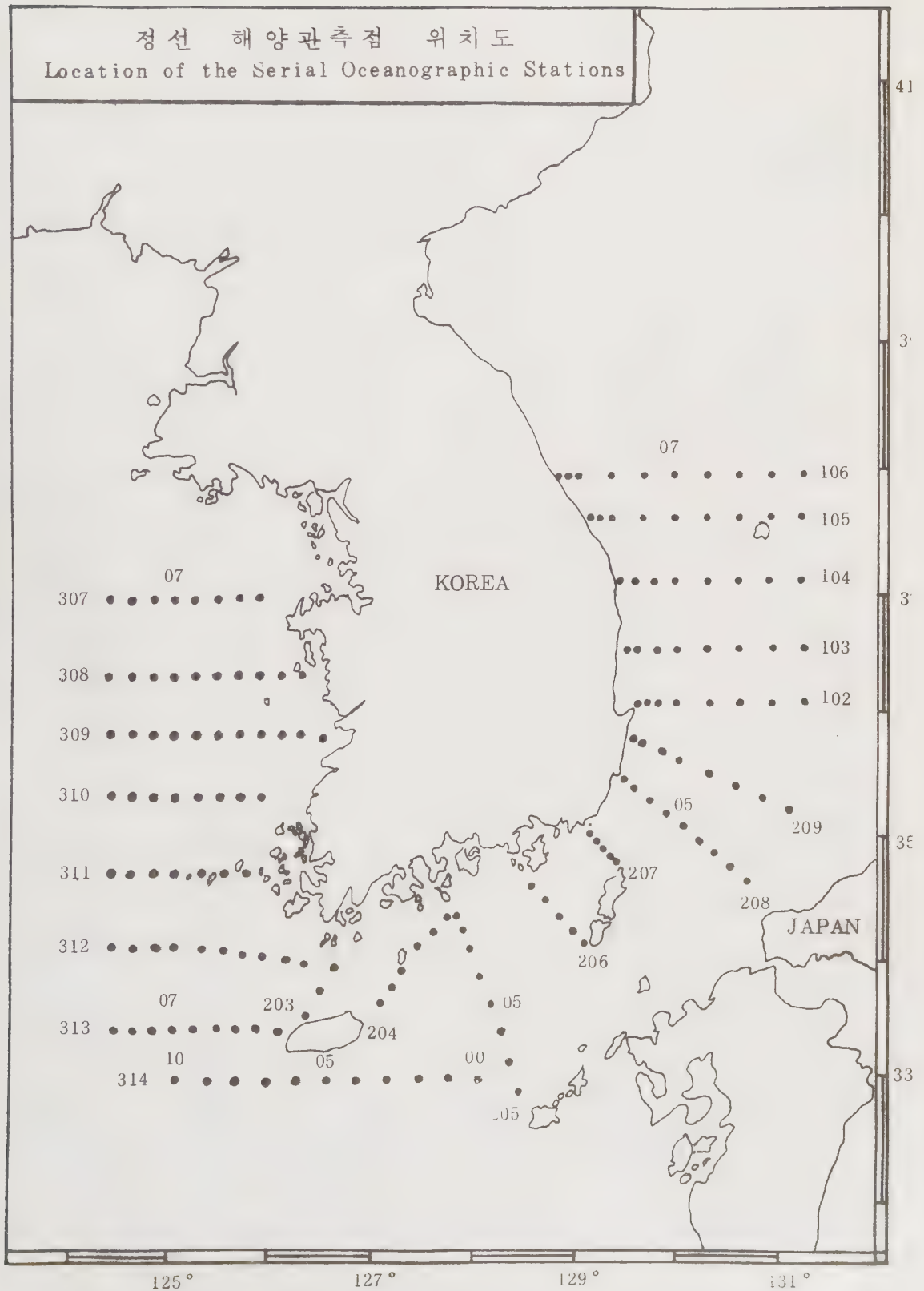
차 례

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정선 해양관측점 위치도
Location of the Serial Oceanographic Stations



정선 해양관측점 위치표

Position of the Serial Oceanographic Stations

St. No. Line	00	01	02	03	04	05
106			37° 53.7' 128° 52.5'	37° 53.7' 128° 57.2'	37° 53.7' 129° 53.8'	37° 53.7' 129° 22.1'
105				37° 33.2' 129° 10.3'	37° 33.2' 129° 15.5'	37° 33.2' 129° 22.6'
104					37° 03.4' 129° 28.8'	37° 03.4' 129° 33.6'
103					36° 30.3' 129° 30.1'	36° 30.3' 129° 35.4'
102					36° 04.6' 129° 36.9'	36° 04.6' 129° 41.3'
209					35° 47.3' 129° 32.8'	35° 45.4' 129° 38.4'
208		35° 28.5' 129° 27.3'	35° 24.3' 129° 33.8'	35° 17.8' 129° 42.9'	35° 11.1' 129° 52.7'	35° 04.8' 130° 02.0'
207		35° 01.3' 129° 07.2'	34° 57.6' 129° 11.2'	34° 53.9' 129° 15.4'	34° 50.2' 129° 19.5'	34° 48.0' 129° 21.8'
206		34° 35.5' 128° 34.5'	34° 29.6' 128° 41.2'	34° 22.4' 128° 49.7'	34° 15.3' 128° 58.0'	34° 08.1' 129° 06.3'
205		34° 22.3' 127° 48.5'	34° 15.0' 127° 52.1'	34° 05.5' 127° 56.9'	33° 51.5' 128° 63.0'	33° 37.3' 128° 09.2'
204		34° 20.8' 127° 43.9'	34° 13.7' 127° 35.4'	34° 06.7' 127° 26.8'	33° 54.1' 127° 15.2'	33° 45.5' 127° 09.2'
203		33° 56.6' 126° 31.4'	33° 47.5' 126° 26.3'	33° 38.3' 126° 21.3'		
314	33° 00.0' 128° 00.6'	33° 00.0' 127° 42.0'	33° 00.0'	33° 00.0'	33° 00.0'	33° 00.0'
313			33° 24.4' 126° 00.0'	33° 24.4' 125° 40.0'	33° 24.4' 125° 36.0'	33° 24.4' 125° 24.0'
312			33° 58.5' 126° 26.0'	33° 59.8' 125° 54.0'	34° 01.3' 125° 42.0'	34° 02.6' 125° 30.0'
311					34° 43.0' 125° 43.9'	34° 43.0' 125° 31.9'
310				35° 20.1' 125° 49.3'	35° 20.1' 125° 36.5'	35° 20.1' 125° 24.4'
309		35° 51.3' 126° 14.7'	35° 51.3' 126° 02.0'	35° 51.3' 125° 49.3'	35° 51.3' 125° 37.0'	35° 51.3' 125° 24.4'
308		36° 19.8' 126° 14.4'	36° 19.8' 126° 02.3'	36° 19.8' 125° 50.0'	36° 19.8' 125° 37.0'	36° 19.8' 125° 25.3'
307				36° 56.5' 126° 00.0'	36° 55.5' 125° 37.7'	36° 55.5' 125° 25.0'

06	07	08	09	10	11
37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'
129° 41.3'	130° 00.0'	130° 18.9'	130° 37.7'	130° 56.5'	131° 15.1'
37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'
129° 41.3'	130° 00.0'	130° 18.7'	130° 37.5'	130° 55.9'	131° 14.6'
37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'
129° 47.6'	130° 00.0'	130° 18.7'	130° 37.6'	130° 56.4'	131° 15.3'
36° 30.3'	36° 30.3'	36° 30.3'	36° 30.3'	36° 30.3'	36° 30.3'
129° 47.3'	130° 00.0'	130° 18.6'	130° 37.3'	130° 55.6'	131° 14.0'
36° 04.6'	36° 04.6'	36° 04.6'	36° 04.6'	36° 04.6'	36° 04.6'
129° 42.8'	130° 00.0'	130° 18.4'	130° 36.9'	130° 55.1'	131° 13.6'
35° 41.3'	35° 36.8'	35° 30.8'	35° 24.4'	35° 17.8'	35° 11.4'
129° 49.0'	130° 00.0'	130° 16.9'	130° 33.5'	130° 50.0'	131° 06.6'
34° 58.2'	34° 52.6'	34° 45.3'	34° 38.9'		
130° 11.9'	130° 20.9'	130° 30.6'	130° 40.5'		

33° 23.8'	33° 09.7'	32° 55.9'
128° 14.3'	128° 21.3'	128° 27.0'
33° 35.8'		
128° 03.2'		

33° 00.0'	33° 00.0'	33° 00.0'	33° 00.0'	33° 00.0'
126° 12.0'	125° 54.0'	125° 36.0'	125° 18.0'	125° 00.0'
33° 24.4'	33° 24.4'	33° 24.4'	33° 24.4'	33° 24.4'
125° 12.0'	125° 00.0'	124° 48.0'	124° 36.0'	124° 24.0'

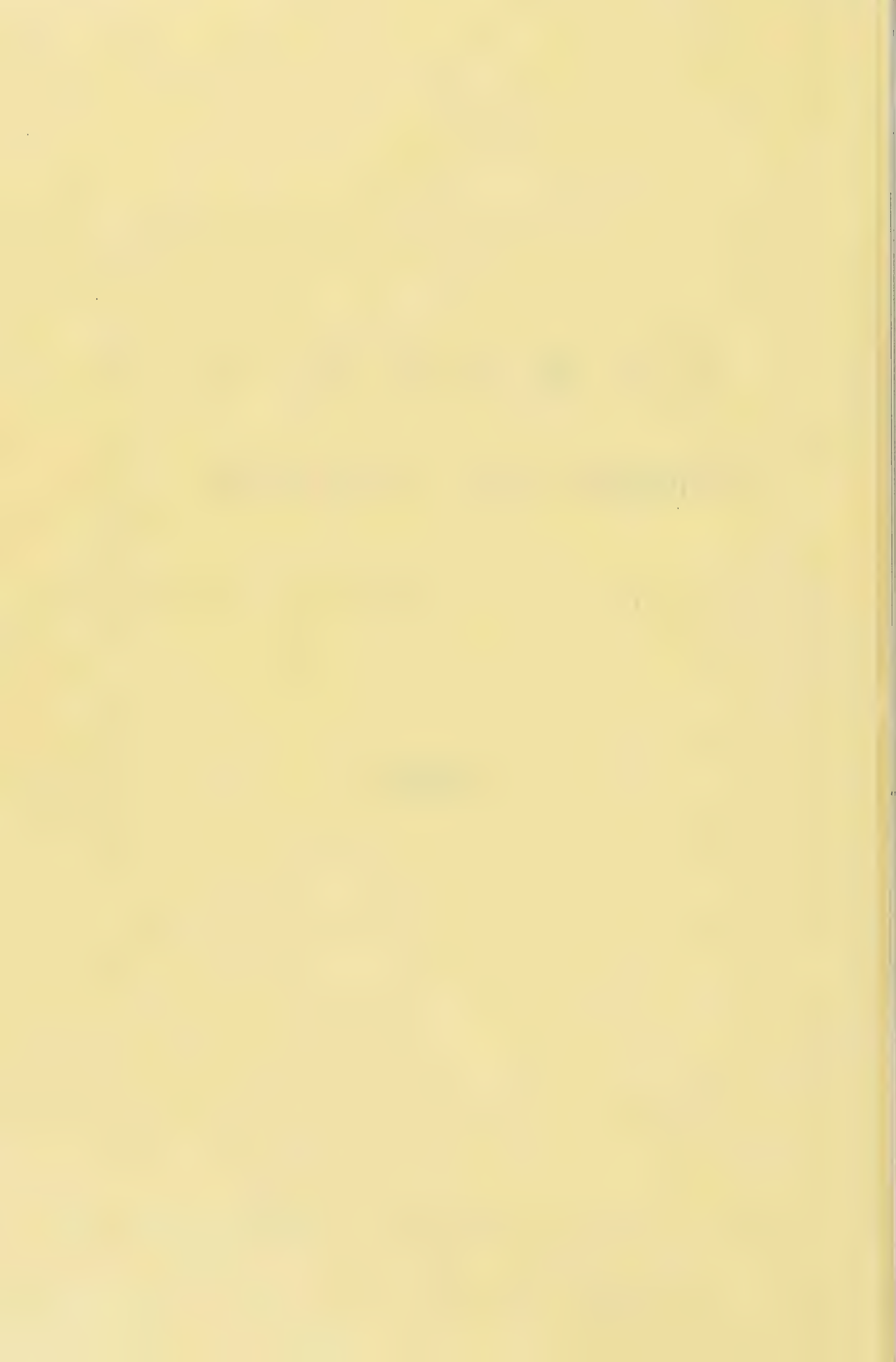
34° 04.1'	34° 05.5'	34° 05.5'	34° 05.5'	34° 05.5'
125° 18.0'	125° 00.0'	124° 48.0'	124° 36.0'	124° 24.0'
34° 43.0'	34° 43.0'	34° 43.0'	34° 43.0'	34° 43.0'
125° 19.4'	125° 00.0'	124° 47.9'	124° 35.8'	124° 23.4'
35° 20.1'	35° 20.1'	35° 20.1'	35° 20.1'	35° 20.1'
125° 12.1'	125° 00.0'	124° 47.9'	124° 35.6'	124° 23.5'
35° 51.3'	35° 51.3'	35° 51.3'	35° 51.3'	35° 51.3'
125° 12.3'	125° 00.0'	124° 47.8'	124° 35.1'	124° 22.8'
36° 19.8'	36° 19.8'	36° 19.8'	36° 19.8'	36° 19.8'
125° 12.4'	125° 00.0'	124° 47.5'	124° 35.1'	124° 23.0'
36° 55.5'	36° 55.5'	36° 55.5'	36° 55.5'	36° 55.5'
125° 12.5'	125° 00.0'	124° 47.5'	124° 34.8'	124° 22.3'

St. No. Line	12	13	14	15	16	17
106	37° 53.7' 131° 34.7'	37° 53.7' 131° 53.0'	37° 53.7' 132° 12.2'	37° 53.7' 132° 30.9'	37° 53.7' 132° 49.6'	
105	37° 33.2' 131° 33.8'	37° 33.2' 131° 52.2'	37° 33.2' 132° 11.2'	37° 33.2' 132° 29.8'	37° 33.2' 132° 48.4'	
104	37° 03.4' 131° 33.8'	37° 03.4' 131° 52.6'	37° 03.4' 132° 11.6'	37° 03.4' 132° 29.5'	37° 03.4' 132° 47.6'	
103						
102						
209						
208						
207						
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307						

동 해 해 양 조 사 성 적

OCEANOGRAPHIC DATA : EASTERN WATERS

1980



106선 해양관측성적 Oceanographic Data. Line 106

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, FEB.14.1980, 10.30 VST, DEPTH 50 , COLOR 3, TRANS. 18.0,																	
WAVE 4, SWELL 2, WIND NW 5, BARO 1024.5, AIR TEMP. DRY 2.5, WET , CLOUD. TYPE , AMT , WEATHER F ,																	
0	8.80	*****	6.63							0	8.80	*****	6.63	*****	***	***	.0000
10	8.80	*****	6.64							10	8.80	*****	6.64	*****	***	***	*****
20	8.77	*****	6.65							20	8.77	*****	6.65	*****	***	***	*****
30	8.72	*****	6.64							30	8.72	*****	6.64	*****	***	***	*****
50	7.17	*****	6.87							50	7.17	*****	6.87	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, FEB.14.1980, 11.30 VST, DEPTH 320 , COLOR 3, TRANS. 15.0,																	
WAVE 4, SWELL 2, WIND NW 5, BARO 1024. , AIR TEMP. DRY 2.5, WET , CLOUD. TYPE , AMT , WEATHER F ,																	
0	8.80	*****	6.63							0	8.80	*****	6.63	*****	***	***	.0000
10	9.26	*****	6.58							10	9.26	*****	6.58	*****	***	***	*****
20	9.27	*****	6.58							20	9.27	*****	6.58	*****	***	***	*****
30	8.88	*****	6.64							30	8.88	*****	6.64	*****	***	***	*****
50	8.79	*****	6.65							50	8.79	*****	6.65	*****	***	***	*****
75	7.82	*****	6.77							75	7.82	*****	6.77	*****	***	***	*****
100	3.35	*****	7.50							100	3.35	*****	7.50	*****	***	***	*****
125	1.85	*****	7.76							125	1.85	*****	7.76	*****	***	***	*****
150	1.59	*****	7.75							150	1.59	*****	7.75	*****	***	***	*****
200	1.09	*****	7.90							200	1.09	*****	7.90	*****	***	***	*****
250	.90	*****	7.95							250	.90	*****	7.95	*****	***	***	*****
300	.82	*****	7.96							300	.82	*****	7.96	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D.DY	
KOREA , CHUN MA SAN , STATION 106-04 , 37-53.7. N, 120-03.8. E, FEB.23.1980, 06.50 KST, DEPTH 710 , COLOR , TRANS. .																		
WAVE 6, SWELL 3, WIND NW 5, EARD 1020.5, AIR TEMP. DRY 2.5, WET , CLOUD. TYPE C1, AMT 5, WEATHER FC,																		
0	8.42	*****	6.69							0	8.42	*****	6.69	*****	***	***	.0000	
10	8.40	*****	6.69							10	8.40	*****	6.69	*****	***	***	*****	
20	8.42	*****	6.68							20	8.42	*****	6.68	*****	***	***	*****	
30	8.40	*****	6.69							30	8.40	*****	6.69	*****	***	***	*****	
50	7.78	*****	6.78							50	7.78	*****	6.78	*****	***	***	*****	
75	3.82	*****	7.43							75	3.82	*****	7.43	*****	***	***	*****	
100	3.32	*****	7.69							100	3.32	*****	7.69	*****	***	***	*****	
125	2.97	*****	7.58							125	2.97	*****	7.58	*****	***	***	*****	
150	1.90	*****	7.77							150	1.90	*****	7.77	*****	***	***	*****	
200	.84	*****	7.97							200	.84	*****	7.97	*****	***	***	*****	
250	.70	*****	7.98							250	.70	*****	7.98	*****	***	***	*****	
300	.46	*****	8.05							300	.46	*****	8.05	*****	***	***	*****	
400	.35	*****	8.06							400	.35	*****	8.06	*****	***	***	*****	
500	.23	*****	8.07							500	.23	*****	8.07	*****	***	***	*****	

KOREA ,CHUN MA SAN , STATION 106-05 , 37-53.7. N, 120-22.1. E, FEB.23.1980, 09.50 KST, DEPTH 1120 , COLOR 4, TRANS. 19.5,																		
WAVE 5, SWELL 2, WIND NW 5, EARO 1020.6, AIR TLP. DRY 2.7, WET , , CLOUD. TYPE AS, AMT 6, WEATHER EC,																		
0	9.86	*****	6.49							0	9.86	*****	6.49	*****	***	***	.0000	
10	9.90	*****	6.48							10	9.90	*****	6.48	*****	***	***	*****	
20	9.89	*****	6.49							20	9.89	*****	6.49	*****	***	***	*****	
30	9.82	*****	6.49							30	9.82	*****	6.49	*****	***	***	*****	
50	9.75	*****	6.50							50	9.75	*****	6.50	*****	***	***	*****	
75	8.64	*****	6.65							75	8.64	*****	6.65	*****	***	***	*****	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	7.80	*****	6.78							170	7.80	*****	6.78	*****	***	***	*****
125	6.72	*****	6.94							125	6.72	*****	6.94	*****	***	***	*****
150	2.36	*****	7.68							150	2.36	*****	7.68	*****	***	***	*****
200	.84	*****	7.98							200	.84	*****	7.98	*****	***	***	*****
250	.63	*****	8.02							250	.63	*****	8.02	*****	***	***	*****
300	.50	*****	8.04							300	.50	*****	8.04	*****	***	***	*****
400	.42	*****	8.06							400	.42	*****	8.06	*****	***	***	*****
500	.38	*****	8.04							500	.38	*****	8.04	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.0. N, 120-41.3. E, FEB.23.1980, 12.50 KST, DEPTH 1620 , COLOR 3, TRANS. 21.0,																	
WAVE 6, SWELL 3, WIND N 6, EARO 1019.8, AIR TEMP. DRY 3.2, WET . , CLOUD. TYPE AS, AMT 4, WEATHER FC,																	
0	9.72	*****	6.50							0	9.72	*****	6.50	*****	***	***	.0000
10	9.80	*****	6.51							10	9.80	*****	6.51	*****	***	***	*****
20	9.74	*****	6.51							20	9.74	*****	6.51	*****	***	***	*****
30	9.68	*****	6.54							30	9.68	*****	6.54	*****	***	***	*****
50	9.69	*****	6.52							50	9.69	*****	6.52	*****	***	***	*****
75	9.68	*****	6.52							75	9.68	*****	6.52	*****	***	***	*****
100	9.66	*****	6.51							100	9.66	*****	6.51	*****	***	***	*****
125	9.62	*****	6.53							125	9.62	*****	6.53	*****	***	***	*****
150	9.58	*****	6.53							150	9.58	*****	6.53	*****	***	***	*****
200	9.51	*****	6.54							200	9.51	*****	6.54	*****	***	***	*****
250	3.09	*****	7.56							250	3.09	*****	7.56	*****	***	***	*****
300	1.92	*****	7.76							300	1.92	*****	7.76	*****	***	***	*****
400	.92	*****	7.97							400	.92	*****	7.97	*****	***	***	*****
500	.80	*****	7.98							500	.80	*****	7.98	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02 N	N03 N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, FEB.23.1980, 15.50 KST, DEPTH 1060 , COLOR 3, TRANS. 20.0. WAVE 6, SWELL 3, WIND N 6, BARO 1019.5, AIR TEMP. DRY 3.8, WET . , CLOUD. TYPE AS, AMT 6, WEATHER FC,																	
0	9.95	*****	6.49							0	9.95	*****	6.49	*****	***	***	.0000
10	9.55	*****	6.50							10	9.55	*****	6.50	*****	***	***	*****
20	9.77	*****	6.50							20	9.77	*****	6.50	*****	***	***	*****
30	9.70	*****	6.52							30	9.70	*****	6.52	*****	***	***	*****
50	9.64	*****	*****							50	9.64	*****	*****	*****	***	***	*****
75	9.56	*****	6.53							75	9.56	*****	6.53	*****	***	***	*****
100	9.52	*****	6.54							100	9.52	*****	6.54	*****	***	***	*****
125	9.50	*****	6.55							125	9.50	*****	6.55	*****	***	***	*****
150	9.45	*****	6.56							150	9.45	*****	6.56	*****	***	***	*****
200	9.41	*****	6.56							200	9.41	*****	6.56	*****	***	***	*****
250	9.32	*****	6.57							250	9.32	*****	6.57	*****	***	***	*****
300	5.18	*****	7.18							300	5.18	*****	7.18	*****	***	***	*****
400	2.25	*****	7.70							400	2.25	*****	7.70	*****	***	***	*****
500	.84	*****	7.96							500	.84	*****	7.96	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, FEB.23.1980, 18.50 KST, DEPTH 1800 , COLOR , TRANS. , WAVE 6, SWELL 3, WIND N 6, BARO 1019.5, AIR TEMP. DRY 3.8, WET . , CLOUD. TYPE AS, AMT 6, WEATHER EC,																	
0	9.88	*****	6.49							0	9.88	*****	6.49	*****	***	***	.0000
10	9.90	*****	6.49							10	9.90	*****	6.49	*****	***	***	*****
20	9.89	*****	6.49							20	9.89	*****	6.49	*****	***	***	*****
30	9.86	*****	6.49							30	9.86	*****	6.49	*****	***	***	*****
50	9.86	*****	6.49							50	9.86	*****	6.49	*****	***	***	*****
75	9.84	*****	6.50							75	9.84	*****	6.50	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	9.85	*****	6.49							100	9.85	*****	6.49	*****	***	***	*****
125	9.83	*****	6.50							125	9.83	*****	6.50	*****	***	***	*****
150	9.82	*****	6.50							150	9.82	*****	6.50	*****	***	***	*****
200	9.79	*****	6.51							200	9.79	*****	6.51	*****	***	***	*****
250	8.30	*****	6.70							250	8.30	*****	6.70	*****	***	***	*****
300	7.14	*****	****							300	7.14	*****	****	*****	***	***	*****
400	3.25	*****	7.51							400	3.25	*****	7.51	*****	***	***	*****
500	1.90	*****	7.76							500	1.90	*****	7.76	*****	***	***	*****
KOREA , CHUN MA SAN , STATION 106-09 , 37-53.7. N, 130-37.7. E, FEE.23.1980, 21.50 VST, DEPTH 2250 , COLOR , TRANS. ,																	
WAVE	5, SWELL	3, WIND N	5, BARO 1019.5, AIR TEMP. DRY	3.8, WET	, CLOUD. TYPE	, AMT	6, WEATHER BC,										
0	9.93	*****	6.48							0	9.93	*****	6.48	*****	***	***	-0000
10	9.97	*****	6.48							10	9.97	*****	6.48	*****	***	***	*****
20	9.88	*****	6.49							20	9.88	*****	6.49	*****	***	***	*****
30	9.84	*****	6.49							30	9.84	*****	6.49	*****	***	***	*****
50	9.83	*****	6.50							50	9.83	*****	6.50	*****	***	***	*****
75	9.82	*****	6.50							75	9.82	*****	6.50	*****	***	***	*****
100	9.86	*****	6.49							100	9.86	*****	6.49	*****	***	***	*****
125	9.80	*****	6.50							125	9.80	*****	6.50	*****	***	***	*****
150	9.81	*****	6.50							150	9.81	*****	6.50	*****	***	***	*****
200	9.08	*****	6.59							200	9.08	*****	6.59	*****	***	***	*****
250	8.42	*****	6.69							250	8.42	*****	6.69	*****	***	***	*****
300	7.55	*****	6.80							300	7.55	*****	6.80	*****	***	***	*****
400	3.78	*****	7.42							400	3.78	*****	7.42	*****	***	***	*****
500	1.95	*****	7.75							500	1.95	*****	7.75	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									

KOREA , CHUN MA SAN , STATION 106-10 , 37-53.7. N, 130-56.5. E, FEB.24.1980, 00.45 YST, DEPTH 1980 , COLOR , TRANS. .

WAVE 4, SWELL 4, WIND N 5, EARD 1019.5, AIR T-LP, PRY 4.0, WET , CLOUD, TYPE , ANT 3, WEATHER FC,

0	9.58	*****	6.53							0	9.56	*****	6.53	*****	***	***	.0000
10	9.90	*****	6.49							10	9.90	*****	6.49	*****	***	***	*****
20	9.89	*****	6.49							20	9.89	*****	6.49	*****	***	***	*****
30	9.83	*****	6.49							30	9.83	*****	6.49	*****	***	***	*****
50	9.82	*****	6.50							50	9.82	*****	6.50	*****	***	***	*****
75	9.82	*****	6.50							75	9.82	*****	6.50	*****	***	***	*****
100	9.82	*****	6.50							100	9.82	*****	6.50	*****	***	***	*****
125	9.74	*****	6.51							125	9.74	*****	6.51	*****	***	***	*****
150	9.68	*****	6.50							150	9.68	*****	6.50	*****	***	***	*****
200	9.70	*****	6.51							200	9.70	*****	6.51	*****	***	***	*****
250	9.14	*****	6.59							250	9.14	*****	6.59	*****	***	***	*****
300	8.15	*****	6.72							300	8.15	*****	6.72	*****	***	***	*****
400	6.33	*****	7.01							400	6.33	*****	7.01	*****	***	***	*****
500	2.10	*****	7.75							500	2.10	*****	7.75	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-11 , 37-53.7. N, 131-15.1. E, FEB.24.1980, 03.50 YST, DEPTH 2070 , COLOR , TRANS. .

WAVE 4, SWELL 4, WIND N 4, EARD 1019. , AIR T-LP, PRY 4.0, WET , CLOUD, TYPE , ANT 4, WEATHER FC,

0	9.68	*****	6.52							0	9.68	*****	6.52	*****	***	***	.0000
10	9.54	*****	6.53							10	9.54	*****	6.53	*****	***	***	*****
20	9.49	*****	6.55							20	9.49	*****	6.55	*****	***	***	*****
30	9.60	*****	6.53							30	9.60	*****	6.53	*****	***	***	*****
50	9.42	*****	6.56							50	9.42	*****	6.56	*****	***	***	*****
75	0.34	*****	6.57							75	9.74	*****	6.57	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	9.72	*****	6.51							100	9.72	*****	6.51	*****	***	***	*****
125	9.62	*****	6.53							125	9.62	*****	6.53	*****	***	***	*****
150	9.42	*****	6.57							150	9.42	*****	6.57	*****	***	***	*****
200	8.40	*****	6.69							200	8.40	*****	6.69	*****	***	***	*****
250	6.82	*****	6.92							250	6.82	*****	6.92	*****	***	***	*****
300	4.92	*****	7.22							300	4.92	*****	7.22	*****	***	***	*****
400	2.10	*****	7.73							400	2.10	*****	7.73	*****	***	***	*****

4 월(April)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, APR.18.1980, 12.40 KST, DEPTH 50 , COLOR 4, TRANS. 15.0.
 WAVE 2, SWELL 1, WIND SW 3, BARO 1011. , AIR TEMP. DRY 11.5, WET 0 10.33 ***** 6.39 ***** *** .0000
 10 10.41 ***** 6.39 ***** *** ***
 20 10.30 ***** 6.40 ***** *** ***
 30 9.63 ***** 6.49 ***** *** ***
 50 4.77 ***** 7.22 ***** *** ***

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, APR.18.1980, 11.10 KST, DEPTH 320 , COLOR 4, TRANS. 15.5.
 WAVE 2, SWELL 1, WIND SW 3, BARO 1011. , AIR TEMP. DRY 10.9, WET 0 10.25 ***** 6.40 ***** *** .0000
 10 10.35 ***** 6.41 ***** *** ***
 20 10.40 ***** 6.39 ***** *** ***
 30 9.09 ***** 6.56 ***** *** ***
 50 8.36 ***** 6.68 ***** *** ***
 75 6.03 ***** 7.01 ***** *** ***

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	3.95	*****	7.36							100	3.95	*****	7.36	*****	***	***	*****
125	3.34	*****	7.47							125	3.74	*****	7.47	*****	***	***	*****
150	1.47	*****	7.00							150	1.47	*****	7.80	*****	***	***	*****
200	.80	*****	7.90							200	.80	*****	7.90	*****	***	***	*****
250	.65	*****	7.95							250	.65	*****	7.95	*****	***	***	*****
300	.58	*****	7.97							300	.58	*****	7.97	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION: 106-04 , 37-53.7. N, 120-03.8. E, APR.19.1980, 09.20 VET, DEPTH 710 , COLOR 3, TRANS. 18.0																	
WAVE 2, SWELL 1, WIND SW 4, BARO 1011. , AIR TEMP. DRY 10.5, WET . , CLOUD. TYPE ST, AMT 4, WEATHER EC,																	
0	12.39	*****	6.04							0	12.39	*****	6.04	*****	***	***	.0000
10	12.29	*****	6.16							10	12.29	*****	6.16	*****	***	***	*****
20	12.06	*****	6.17							20	12.06	*****	6.17	*****	***	***	*****
30	9.42	*****	6.52							30	9.42	*****	6.52	*****	***	***	*****
50	7.77	*****	6.75							50	7.77	*****	6.75	*****	***	***	*****
75	7.66	*****	6.76							75	7.66	*****	6.76	*****	***	***	*****
100	7.71	*****	6.75							100	7.71	*****	6.75	*****	***	***	*****
125	7.55	*****	6.78							125	7.55	*****	6.78	*****	***	***	*****
150	6.77	*****	6.90							150	6.77	*****	6.90	*****	***	***	*****
200	5.10	*****	7.17							200	5.10	*****	7.17	*****	***	***	*****
250	.51	*****	8.00							250	.51	*****	8.00	*****	***	***	*****
300	.39	*****	8.04							300	.39	*****	8.04	*****	***	***	*****
400	.39	*****	8.04							400	.39	*****	8.04	*****	***	***	*****
500	.51	*****	8.05							500	.51	*****	8.05	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, APR.18.1980, 06.10 KST, DEPTH 1120 , COLOR , TRANS. . ,

WAVE 2, SWELL 1, WIND SW 4, BARO 1011. , AIR TEMP. DRY 9.5, WET . , CLOUD. TYPE ST. AMT 3, WEATHER PC.

0	12.70	*****	6.09							0	12.70	*****	6.09	*****	***	***	.0000
10	12.79	*****	6.08							10	12.79	*****	6.08	*****	***	***	*****
20	12.76	*****	6.09							20	12.76	*****	6.09	*****	***	***	*****
30	12.70	*****	6.11							30	12.70	*****	6.11	*****	***	***	*****
50	12.27	*****	6.14							50	12.27	*****	6.14	*****	***	***	*****
75	8.68	*****	6.61							75	8.68	*****	6.61	*****	***	***	*****
100	5.46	*****	7.11							100	5.46	*****	7.11	*****	***	***	*****
125	5.50	*****	7.09							125	5.50	*****	7.09	*****	***	***	*****
150	4.41	*****	7.27							150	4.41	*****	7.27	*****	***	***	*****
200	2.41	*****	7.64							200	2.41	*****	7.64	*****	***	***	*****
250	1.18	*****	7.88							250	1.18	*****	7.88	*****	***	***	*****
300	.77	*****	7.94							300	.77	*****	7.94	*****	***	***	*****
400	.51	*****	7.99							400	.51	*****	7.99	*****	***	***	*****
500	.54	*****	7.98							500	.54	*****	7.98	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-06 , 37-53.0. N, 120-41.3. E, APR.18.1980, 13.10 KST, DEPTH 1620 , COLOR , TRANS. . ,

WAVE 1, SWELL 1, WIND SW 5, BARO 1011.5, AIR TEMP. DRY 9.8, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	12.79	*****	6.12							0	12.79	*****	6.12	*****	***	***	.0000
10	12.34	*****	6.09							10	12.84	*****	6.09	*****	***	***	*****
20	12.74	*****	6.10							20	12.74	*****	6.10	*****	***	***	*****
30	12.32	*****	6.14							30	12.72	*****	6.14	*****	***	***	*****
50	9.90	*****	6.45							50	9.90	*****	6.45	*****	***	***	*****
75	9.60	*****	6.49							75	9.60	*****	6.49	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	9.12	*****	6.54							100	9.12	*****	6.54	*****	***	***	*****
125	9.36	*****	6.52							125	9.36	*****	6.52	*****	***	***	*****
150	9.11	*****	6.55							150	9.11	*****	6.55	*****	***	***	*****
200	7.07	*****	6.85							200	7.07	*****	6.85	*****	***	***	*****
250	2.71	*****	7.60							250	2.71	*****	7.60	*****	***	***	*****
300	1.38	*****	7.85							300	1.38	*****	7.85	*****	***	***	*****
400	.73	*****	7.97							400	.73	*****	7.97	*****	***	***	*****
500	.49	*****	8.03							500	.49	*****	8.03	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-07 , 37-53.7, N, 130-00.0, E, APR.18.1980, 00.00 KST, DEPTH 1060 , COLOR , T-PANS. . .

WAVE 2, SWELL 2, WIND S 5, SARD 1011.2, AIR TEMP. DRY 6.0, WFT . , CLOUD. TYPE , AMT , WEATHER ,

0	9.57	*****	6.48							0	9.57	*****	6.48	*****	***	***	.0000
10	9.56	*****	6.49							10	9.56	*****	6.49	*****	***	***	*****
20	9.57	*****	6.49							20	9.57	*****	6.49	*****	***	***	*****
30	9.64	*****	6.48							30	9.64	*****	6.48	*****	***	***	*****
50	9.61	*****	6.48							50	9.61	*****	6.48	*****	***	***	*****
75	9.59	*****	*****							75	9.59	*****	*****	*****	***	***	*****
100	9.53	*****	6.49							100	9.53	*****	6.49	*****	***	***	*****
125	9.55	*****	6.49							125	9.55	*****	6.49	*****	***	***	*****
150	9.54	*****	6.49							150	9.54	*****	6.49	*****	***	***	*****
200	9.53	*****	6.49							200	9.53	*****	6.49	*****	***	***	*****
250	9.49	*****	6.50							250	9.49	*****	6.50	*****	***	***	*****
300	8.51	*****	6.62							300	8.51	*****	6.62	*****	***	***	*****
400	6.54	*****	6.91							400	6.54	*****	6.91	*****	***	***	*****
500	3.52	*****	7.41							500	3.52	*****	7.41	*****	***	***	*****

OBSERVED																		INTERPOLATED						CALCULATED					
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY												

KOREA CHUN MA SAN , STATION 106-U2 , 37-53.7. N, 130-18.9. E, APR.17.1980, 20.50 KST, DEPTH 1800 , COLOR 1800 , TRANS. . .
WAVE 4, SWELL 2, WIND SE 5, EARN 1011. , AIR TEMP. DRY 6.3, WET . , CLOUD. TYPE , AMT , WEATHER FC,
0 9.80 ***** 6.46 0 9.80 ***** 6.46 ***** *** .0000
10 9.67 ***** 6.49 10 9.67 ***** 6.49 ***** ***
20 9.66 ***** 20 9.66 ***** ***** ***
30 9.47 ***** 30 9.47 ***** ***** ***
50 9.57 ***** 50 9.57 ***** 6.49 ***** ***
75 9.62 ***** 75 9.62 ***** ***** ***
100 9.50 ***** 100 9.50 ***** ***** ***
125 9.57 ***** 125 9.57 ***** 6.48 ***** ***
150 9.62 ***** 150 9.62 ***** 6.50 ***** ***
200 9.47 ***** 200 9.47 ***** 6.52 ***** ***
250 9.47 ***** 250 9.47 ***** 6.52 ***** ***
300 9.42 ***** 300 9.42 ***** 6.53 ***** ***
400 7.76 ***** 400 7.76 ***** ***** ***
500 4.70 ***** 500 4.70 ***** 7.21 ***** ***

6월(June)

KOREA CHUN MA SAN , STATION 106-U2 , 37-53.7. N, 128-52.5. E, JUN.13.1980, 09.20 KST, DEPTH 58 , COLOR 3, TRANS. 13.0,
WAVE , SWELL , WIND SE 1, EARN 1003. , AIR TEMP. DRY 29.5, WET . , CLOUD. TYPE , AMT , WEATHER F ,
0 16.35 ***** 6.56 0 16.35 ***** 6.56 ***** *** .0000
10 13.88 ***** 6.75 10 13.88 ***** 6.75 ***** ***
20 9.83 ***** 7.03 20 9.83 ***** 7.03 ***** ***
30 7.71 ***** 7.13 30 7.71 ***** 7.13 ***** ***
50 5.55 ***** 6.08 50 5.55 ***** 6.08 ***** ***

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, JUN.13.1980, 10.50 KST, DEPTH 320 , COLOR 3, TRANS. 17.0.

WAVE , SWELL , WIND SE 1, EARO 1003.5, AIR TLMF. DRY 30.5, WET . , CLOUD. TYPE CI, AMT 1, WEATHER F .

0	16.58	*****	5.80							0	16.58	*****	5.80	*****	***	***	.0000
10	10.46	*****	7.03							10	10.46	*****	7.03	*****	***	***	*****
20	5.30	*****	6.18							20	5.30	*****	6.18	*****	***	***	*****
30	4.16	*****	5.42							30	4.16	*****	5.42	*****	***	***	*****
50	2.02	*****	6.18							50	2.02	*****	6.18	*****	***	***	*****
75	1.09	*****	*****							75	1.09	*****	*****	*****	***	***	*****
100	.94	*****	5.70							100	.94	*****	5.70	*****	***	***	*****
125	.87	*****	5.70							125	.87	*****	5.70	*****	***	***	*****
150	.75	*****	5.80							150	.75	*****	5.80	*****	***	***	*****
200	.73	*****	6.17							200	.73	*****	6.17	*****	***	***	*****
250	.53	*****	5.80							250	.53	*****	5.80	*****	***	***	*****
300	.47	*****	5.61							300	.47	*****	5.61	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-04 , 37-53.7. N, 129-03.8. E, JUN.13.1980, 12.30 KST, DEPTH 710 , COLOR 4, TRANS. 10.5.

WAVE , SWELL , WIND SE 1, EARO 1000.5, AIR TLMF. DRY 31.0, WET . , CLOUD. TYPE CI, AMT 1, WEATHER F .

0	16.40	*****	6.08							0	16.40	*****	6.08	*****	***	***	.0000
10	13.90	*****	6.27							10	13.90	*****	6.27	*****	***	***	*****
20	13.60	*****	5.89							20	13.60	*****	5.89	*****	***	***	*****
30	11.03	*****	5.42							30	11.03	*****	5.42	*****	***	***	*****
50	10.96	*****	5.71							50	10.96	*****	5.71	*****	***	***	*****
75	5.52	*****	5.80							75	5.52	*****	5.80	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	5.37	*****	5.42							100	5.37	*****	5.42	*****	***	***	*****
125	5.33	*****	5.70							125	5.33	*****	5.70	*****	***	***	*****
150	4.18	*****	6.08							150	4.18	*****	6.08	*****	***	***	*****
200	1.65	*****	5.80							200	1.65	*****	5.80	*****	***	***	*****
250	.93	*****	5.51							250	.93	*****	5.51	*****	***	***	*****
300	.72	*****	5.42							300	.72	*****	5.42	*****	***	***	*****
400	.54	*****	5.89							400	.54	*****	5.89	*****	***	***	*****
500	.56	*****	5.70							500	.56	*****	5.70	*****	***	***	*****
KOREA ,CHUN NA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, JUN.13.1980, 15.30 KST, DEPTH 1120 , COLOR 3, TRANS. 21.0																	
WAVE , SWELL , WIND SE 1, BARO 1002.5, AIR TEMP. DRY 30.0, WET , CLOUD. TYPE , AMT , WEATHER F ,																	
0	16.77	*****	6.37							0	16.77	*****	6.37	*****	***	***	.0000
10	16.05	*****	6.18							10	16.05	*****	6.18	*****	***	***	*****
20	15.50	*****	5.89							20	15.50	*****	5.89	*****	***	***	*****
30	15.14	*****	5.42							30	15.14	*****	5.42	*****	***	***	*****
50	13.89	*****	5.32							50	13.89	*****	5.32	*****	***	***	*****
75	10.95	*****	6.27							75	10.95	*****	6.27	*****	***	***	*****
100	10.11	*****	5.89							100	10.11	*****	5.89	*****	***	***	*****
125	9.86	*****	6.18							125	9.86	*****	6.18	*****	***	***	*****
150	8.83	*****	6.18							150	8.83	*****	6.18	*****	***	***	*****
200	7.37	*****	5.99							200	7.37	*****	5.99	*****	***	***	*****
250	3.42	*****	5.80							250	3.42	*****	5.80	*****	***	***	*****
300	2.87	*****	6.18							300	2.87	*****	6.18	*****	***	***	*****
400	.70	*****	5.99							400	.70	*****	5.99	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.0. N, 129-41.3. E, JUN.13.1980, 16.40 KST, DEPTH 1620 , COLOR , TRANS. . .

WAVE 1, SWELL 1, WIND E 1, BARO 1006.5, AIR TEMP. DRY 24.5, WET . , CLOUD. TYPE C1, AMT 1, WEATHER E ,

0	18.90	*****	6.37							0	18.90	*****	6.37	*****	***	***	.0000
10	16.84	*****	6.18							10	16.84	*****	6.18	*****	***	***	*****
20	15.79	*****	6.27							20	15.79	*****	6.27	*****	***	***	*****
30	14.07	*****	6.08							30	14.07	*****	6.08	*****	***	***	*****
50	11.68	*****	5.70							50	11.68	*****	5.70	*****	***	***	*****
75	10.70	*****	5.80							75	10.70	*****	5.80	*****	***	***	*****
100	10.48	*****	5.42							100	10.48	*****	5.42	*****	***	***	*****
125	10.22	*****	5.61							125	10.22	*****	5.61	*****	***	***	*****
150	9.88	*****	5.61							150	9.88	*****	5.61	*****	***	***	*****
200	9.78	*****	5.80							200	9.78	*****	5.80	*****	***	***	*****
250	9.67	*****	6.03							250	9.67	*****	6.08	*****	***	***	*****
300	9.37	*****	5.70							300	9.37	*****	5.70	*****	***	***	*****
400	9.19	*****	5.89							400	9.19	*****	5.89	*****	***	***	*****
500	1.13	*****	5.70							500	1.13	*****	5.70	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, JUN.13.1980, 21.50 KST, DEPTH 1060 , COLOR , TRANS. . .

WAVE , SWELL 1, WIND SE 2, BARO 1003. , AIR TEMP. DRY 19.2, WET . , CLOUD. TYPE , AMT 2, WEATHER E ,

0	19.45	*****	5.87							0	19.45	*****	5.87	*****	***	***	.0000
10	17.52	*****	6.18							10	17.52	*****	6.18	*****	***	***	*****
20	15.79	*****	5.42							20	15.79	*****	5.42	*****	***	***	*****
30	13.87	*****	5.99							30	13.87	*****	5.99	*****	***	***	*****
50	10.89	*****	6.65							50	10.89	*****	6.65	*****	***	***	*****
75	9.79	*****	5.80							75	9.79	*****	5.80	*****	***	***	*****

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
100	9.71	*****	5.89							100	9.71	*****	5.89	*****	***	***	*****							
125	9.72	*****	6.37							125	9.72	*****	6.37	*****	***	***	*****							
150	*****	*****	5.42							150	*****	*****	5.42	*****	***	***	*****							
200	9.86	*****	5.80							200	9.86	*****	5.80	*****	***	***	*****							
250	9.68	*****	5.99							250	9.68	*****	5.99	*****	***	***	*****							
300	9.53	*****	6.08							300	9.53	*****	6.08	*****	***	***	*****							
400	9.09	*****	5.89							400	9.09	*****	5.89	*****	***	***	*****							
500	4.07	*****	5.51							500	4.07	*****	5.51	*****	***	***	*****							
KOREA ,CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, JUN.14,1980, 01.10 KST, DEPTH 1800 , COLOR , TRANS. . .																								
WAVE , SWELL 1, WIND SE 2, BARO 1003.5, AIR TEMP. DRY 19.0, WET . , CLOUD. TYPE , AMT , WEATHER FC.																								
0	17.55	*****	5.70							0	17.55	*****	5.70	*****	***	***	.0000							
10	16.62	*****	5.80							10	16.62	*****	5.80	*****	***	***	*****							
20	15.16	*****	5.99							20	15.16	*****	5.99	*****	***	***	*****							
30	12.60	*****	6.08							30	12.60	*****	6.08	*****	***	***	*****							
50	11.77	*****	5.80							50	11.77	*****	5.80	*****	***	***	*****							
75	10.37	*****	5.80							75	10.37	*****	5.80	*****	***	***	*****							
100	9.88	*****	6.08							100	9.88	*****	6.08	*****	***	***	*****							
125	9.65	*****	6.56							125	9.65	*****	6.56	*****	***	***	*****							
150	9.59	*****	5.70							150	9.59	*****	5.70	*****	***	***	*****							
200	9.43	*****	6.08							200	9.43	*****	6.08	*****	***	***	*****							
250	9.17	*****	5.80							250	9.17	*****	5.80	*****	***	***	*****							
300	8.53	*****	5.70							300	8.53	*****	5.70	*****	***	***	*****							
400	5.61	*****	5.89							400	5.61	*****	5.89	*****	***	***	*****							
500	3.70	*****	6.08							500	3.70	*****	6.08	*****	***	***	*****							

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 106-09 , 37-53.7. N, 130-37.7. E, JUN.14.1980, 04.10 PST, DEPTH 2250 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SE 3, BARO 1005.2, AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE ST, AMT 1, WEATHER F ,																	
0	17.36	*****	5.99							0	17.36	*****	5.99	*****	***	***	.0000
10	16.32	*****	6.08							10	16.32	*****	6.08	*****	***	***	*****
20	16.05	*****	5.99							20	16.05	*****	5.99	*****	***	***	*****
30	14.20	*****	6.18							30	14.20	*****	6.18	*****	***	***	*****
50	10.97	*****	6.46							50	10.97	*****	6.46	*****	***	***	*****
75	10.97	*****	6.56							75	10.97	*****	6.56	*****	***	***	*****
100	9.77	*****	6.75							100	9.77	*****	6.75	*****	***	***	*****
125	9.61	*****	6.27							125	9.61	*****	6.27	*****	***	***	*****
150	9.58	*****	6.08							150	9.58	*****	6.08	*****	***	***	*****
200	9.56	*****	5.89							200	9.56	*****	5.89	*****	***	***	*****
250	9.23	*****	5.99							250	9.23	*****	5.99	*****	***	***	*****
300	9.05	*****	6.65							300	9.05	*****	6.65	*****	***	***	*****
400	1.97	*****	5.80							400	1.97	*****	5.80	*****	***	***	*****
500	1.89	*****	6.84							500	1.94	*****	6.84	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-10 , 37-53.7. N, 130-56.5. E, JUN.14.1980, 07.20 PST, DEPTH 1930 , COLOR 3, TRANS. 21.5.

WAVE 2, SWELL 1, WIND SE 4, BARO 1005.2, AIR TEMP. DRY 19.6, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC ,																	
0	17.18	*****	6.08							0	17.18	*****	6.08	*****	***	***	.0000
10	17.12	*****	5.61							10	17.14	*****	5.61	*****	***	***	*****
20	15.06	*****	5.80							20	15.66	*****	5.80	*****	***	***	*****
30	14.74	*****	6.08							30	14.74	*****	6.08	*****	***	***	*****
50	14.51	*****	5.81							50	14.51	*****	5.81	*****	***	***	*****
75	11.03	*****	6.37							75	11.03	*****	6.37	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.36	*****	5.89							100	10.36	*****	5.89	*****	***	***	*****
125	10.06	*****	5.42							125	10.06	*****	5.42	*****	***	***	*****
150	9.81	*****	6.08							150	9.81	*****	6.08	*****	***	***	*****
200	9.15	*****	6.08							200	9.15	*****	6.08	*****	***	***	*****
250	7.00	*****	6.56							250	7.00	*****	6.56	*****	***	***	*****
300	4.32	*****	5.80							300	4.32	*****	5.80	*****	***	***	*****
400	1.03	*****	5.99							400	1.03	*****	5.99	*****	***	***	*****
500	.69	*****	6.27							500	.69	*****	6.27	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 106-11 , 37-53.7. N, 131-15.1. E, JUN.14.1980, 16.30 KST, DEPTH 2070 , COLOR 3, TPANS. 22.0,																	
WAVE 4, SWELL 1, WIND SE 4, BARO 1005.2, AIR TEMP. DRY 21.0, WET , , CLOUD. TYPE C1, AMT 5, WEATHER EC,																	
0	18.29	*****	5.89							0	18.29	*****	5.89	*****	***	***	.0000
10	15.88	*****	6.56							10	15.88	*****	6.56	*****	***	***	*****
20	15.55	*****	6.08							20	15.55	*****	6.08	*****	***	***	*****
30	15.08	*****	6.08							30	15.08	*****	6.08	*****	***	***	*****
50	14.22	*****	5.89							50	14.22	*****	5.89	*****	***	***	*****
75	11.18	*****	5.99							75	11.18	*****	5.99	*****	***	***	*****
100	10.16	*****	6.18							100	10.16	*****	6.18	*****	***	***	*****
125	9.70	*****	5.99							125	9.70	*****	5.99	*****	***	***	*****
150	9.46	*****	5.70							150	9.46	*****	5.70	*****	***	***	*****
200	6.74	*****	6.08							200	6.74	*****	6.08	*****	***	***	*****
250	2.85	*****	6.18							250	2.85	*****	6.18	*****	***	***	*****
300	1.42	*****	5.61							300	1.42	*****	5.61	*****	***	***	*****
400	.47	*****	5.70							400	.47	*****	5.70	*****	***	***	*****
500	.45	*****	5.99							500	.45	*****	5.99	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

8월(August)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, AUG.15.1980, 07.00 KST, DEPTH 58 , COLOR 4, TRANS. 13.0.
WAVE 1, SWELL 1, WIND NW 1, BARO 1004.5, AIR TEMP. DRY 20.5, WET . , CLOUD. TYPE ST, AMT 0, WEATHER C ,
0 21.80 ***** 5.65 0 21.80 ***** 5.65 ***** *** .0000
10 20.76 ***** 7.02 10 20.76 ***** 7.02 ***** ***
20 19.01 ***** 5.46 20 19.01 ***** 5.46 ***** ***
30 14.90 ***** 5.65 30 14.90 ***** 5.65 ***** ***
50 7.77 ***** 5.46 50 7.77 ***** 5.46 ***** ***

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, AUG.15.1980, 08.00 KST, DEPTH 320 , COLOR 4, TRANS. 14.5.
WAVE 2, SWELL 1, WIND NW 2, BARO 1004.5, AIR TEMP. DRY 21.5, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,
0 21.45 ***** 5.17 0 21.45 ***** 5.17 ***** *** .0000
10 20.58 ***** 5.07 10 20.58 ***** 5.07 ***** ***
20 19.06 ***** 5.26 20 19.06 ***** 5.26 ***** ***
30 14.40 ***** 6.14 30 14.40 ***** 6.14 ***** ***
50 6.45 ***** 7.02 50 6.45 ***** 7.02 ***** ***
75 5.52 ***** 6.53 75 5.52 ***** 6.53 ***** ***
100 4.59 ***** 6.24 100 4.59 ***** 6.24 ***** ***
125 2.19 ***** 5.26 125 2.19 ***** 5.26 ***** ***
150 1.79 ***** 5.65 150 1.79 ***** 5.65 ***** ***
200 1.03 ***** 5.07 200 1.03 ***** 5.07 ***** ***
250 .97 ***** 5.07 250 .97 ***** 5.07 ***** ***
300 .66 ***** 5.65 300 .66 ***** 5.65 ***** ***

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA ,CHUN MA SAN , STATION 106-04 , 37-53.7. N, 129-03.8. E, AUG.15.1980, 16.10 KST, DEPTH 710 , COLOR 3, TPANS. 15.0.																								
WAVE 2, SWELL 1, WIND NW 2, BARO 1004.5, AIR TEMP. DRY 22.3, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,																								
0	21.55	*****	5.26							0	21.55	*****	5.26	*****	***	***	.0000							
10	20.79	*****	5.26							10	20.79	*****	5.26	*****	***	***	*****							
20	18.78	*****	5.17							20	18.78	*****	5.17	*****	***	***	*****							
30	16.19	*****	6.63							30	16.19	*****	6.63	*****	***	***	*****							
50	7.53	*****	5.36							50	7.53	*****	5.36	*****	***	***	*****							
75	3.98	*****	5.85							75	3.98	*****	5.85	*****	***	***	*****							
100	2.09	*****	5.17							100	2.09	*****	5.17	*****	***	***	*****							
125	1.63	*****	5.85							125	1.63	*****	5.85	*****	***	***	*****							
150	1.07	*****	5.36							150	1.07	*****	5.36	*****	***	***	*****							
200	.81	*****	5.26							200	.81	*****	5.26	*****	***	***	*****							
250	.58	*****	5.36							250	.58	*****	5.36	*****	***	***	*****							
300	.18	*****	5.26							300	.18	*****	5.26	*****	***	***	*****							
400	.38	*****	5.26							400	.38	*****	5.26	*****	***	***	*****							
500	.12	*****	5.46							500	.12	*****	5.46	*****	***	***	*****							
KOREA ,CHUN MA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, AUG.15.1980, 12.40 KST, DEPTH 1120 , COLOR 4, TPANS. 15.5.																								
WAVE 2, SWELL 2, WIND NE 2, BARO 1004. , AIR TEMP. DRY 24.8, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,																								
0	22.30	*****	5.07							0	22.30	*****	5.07	*****	***	***	.0000							
10	21.18	*****	4.88							10	21.18	*****	4.88	*****	***	***	*****							
20	20.58	*****	4.88							20	20.58	*****	4.88	*****	***	***	*****							
30	15.79	*****	5.75							30	15.79	*****	5.75	*****	***	***	*****							
50	8.90	*****	5.85							50	8.90	*****	5.85	*****	***	***	*****							
75	4.86	*****	5.95							75	4.86	*****	5.95	*****	***	***	*****							

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	3.73	*****	5.36							100	3.73	*****	5.36	*****	***	***	*****
125	2.48	*****	5.07							125	2.46	*****	5.07	*****	***	***	*****
150	1.53	*****	5.07							150	1.53	*****	5.07	*****	***	***	*****
200	.72	*****	5.85							200	.72	*****	5.85	*****	***	***	*****
250	.70	*****	5.26							250	.70	*****	5.26	*****	***	***	*****
300	.51	*****	5.07							300	.51	*****	5.07	*****	***	***	*****
400	.31	*****	5.07							400	.31	*****	5.07	*****	***	***	*****
500	.26	*****	5.36							500	.26	*****	5.36	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.0. N, 129-41.3. E, AUG.15.1980, 15.40 VST, DEPTH 1620 , COLOR 4, TRANS. 16.5.																	
WAVE 2, SWELL 2, WIND HE 2, BARO 1004. , AIR TEMP. DRY 22.7, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,																	
0	22.70	*****	4.97							0	22.70	*****	4.97	*****	***	***	.0000
10	21.59	*****	4.78							10	21.59	*****	4.78	*****	***	***	*****
20	20.97	*****	4.68							20	20.97	*****	4.68	*****	***	***	*****
30	20.82	*****	4.78							30	20.82	*****	4.78	*****	***	***	*****
50	12.59	*****	5.07							50	12.59	*****	5.07	*****	***	***	*****
75	9.65	*****	4.78							75	9.65	*****	4.78	*****	***	***	*****
100	5.85	*****	5.26							100	5.85	*****	5.26	*****	***	***	*****
125	4.67	*****	5.26							125	4.67	*****	5.26	*****	***	***	*****
150	2.97	*****	4.97							150	2.97	*****	4.97	*****	***	***	*****
200	1.56	*****	5.07							200	1.56	*****	5.07	*****	***	***	*****
250	.84	*****	5.85							250	.84	*****	5.85	*****	***	***	*****
300	.44	*****	4.97							300	.44	*****	4.97	*****	***	***	*****
400	.32	*****	5.36							400	.32	*****	5.36	*****	***	***	*****
500	.31	*****	5.36							500	.31	*****	5.36	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, AUG.15.1980, 16.40 PST, DEPTH 1060 , COLOR , TRANS. . .

WAVE 3, SWELL 2, WIND NE 3, BARO 1004.5, AIR TEMP. DRY 22.7, WET . , CLOUD. TYPE ST, AMT 6, WEATHER FC,

0	22.57	*****	5.36							0	22.57	*****	5.36	*****	***	***	.0000
10	21.61	*****	5.26							10	21.61	*****	5.26	*****	***	***	*****
20	20.97	*****	5.36							20	20.97	*****	5.36	*****	***	***	*****
30	18.78	*****	5.56							30	18.78	*****	5.56	*****	***	***	*****
50	15.62	*****	5.85							50	15.62	*****	5.85	*****	***	***	*****
75	14.49	*****	5.36							75	14.49	*****	5.36	*****	***	***	*****
100	10.39	*****	5.17							100	10.39	*****	5.17	*****	***	***	*****
125	9.34	*****	5.07							125	9.34	*****	5.07	*****	***	***	*****
150	6.27	*****	5.56							150	6.27	*****	5.56	*****	***	***	*****
200	2.95	*****	5.07							200	2.95	*****	5.07	*****	***	***	*****
250	1.27	*****	5.17							250	1.27	*****	5.17	*****	***	***	*****
300	.71	*****	5.56							300	.71	*****	5.56	*****	***	***	*****
400	.34	*****	5.46							400	.34	*****	5.46	*****	***	***	*****
500	.31	*****	5.85							500	.31	*****	5.85	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.0. E, AUG.15.1980, 21.30 PST, DEPTH 1800 , COLOR , TRANS. . .

WAVE , SWELL 2, WIND NE 4, BARO 1005. , AIR TEMP. DRY 22.5, WET . , CLOUD. TYPE , AMT 9, WEATHER C ,

0	22.02	*****	5.36							0	22.02	*****	5.36	*****	***	***	.0000
10	21.58	*****	4.87							10	21.58	*****	4.87	*****	***	***	*****
20	20.63	*****	5.46							20	20.63	*****	5.46	*****	***	***	*****
30	16.28	*****	5.07							30	16.28	*****	5.07	*****	***	***	*****
50	14.82	*****	4.39							50	14.82	*****	4.39	*****	***	***	*****
75	14.40	*****	4.10							75	14.40	*****	4.10	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	Q2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY

100	13.92	*****	4.39							100	13.92	*****	4.39	*****	***	***	*****
125	10.47	*****	5.62							125	10.47	*****	5.62	*****	***	***	*****
150	8.54	*****	5.07							150	8.54	*****	5.07	*****	***	***	*****
200	4.26	*****	5.46							200	4.26	*****	5.46	*****	***	***	*****
250	2.16	*****	5.65							250	2.16	*****	5.65	*****	***	***	*****
300	1.18	*****	5.26							300	1.18	*****	5.26	*****	***	***	*****
400	.37	*****	5.07							400	.37	*****	5.07	*****	***	***	*****
500	*****	*****	5.26							500	*****	*****	5.26	*****	***	***	*****

10월(October)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, OCT.18.1980, 14.10 KST, DEPTH 50 , COLOR 4, TRANS. 12.9,																	
WAVE 2, SWELL 2, WIND NE 2, EARO 1013. , AIR TEMP. DRY 16.0, WET . , CLOUD. TYPE CU, AMT 10, WEATHER C ,																	
0	17.56	*****	5.15							0	17.56	*****	5.15	*****	***	***	.0000
10	17.43	*****	5.44							10	17.43	*****	5.44	*****	***	***	*****
20	16.68	*****	5.25							20	16.68	*****	5.25	*****	***	***	*****
30	14.22	*****	5.34							30	14.22	*****	5.34	*****	***	***	*****
50	8.87	*****	5.54							50	8.87	*****	5.54	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, OCT.18.1980, 15.20 KST, DEPTH 320 , COLOR 4, TRANS. 13.5,																	
WAVE 2, SWELL 2, WIND NE 2, EARO 1013. , AIR TEMP. DRY 16.5, WET . , CLOUD. TYPE CU, AMT 10, WEATHER C ,																	
0	16.97	*****	5.34							0	16.97	*****	5.34	*****	***	***	.0000
10	16.76	*****	4.96							10	16.76	*****	4.96	*****	***	***	*****
20	14.22	*****	4.66							20	14.22	*****	4.66	*****	***	***	*****
30	11.13	*****	4.47							30	11.13	*****	4.47	*****	***	***	*****
50	5.59	*****	4.76							50	5.58	*****	4.76	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	2.58	*****	5.54							75	2.58	*****	5.54	*****	***	***	*****
100	1.60	*****	5.25							100	1.60	*****	5.25	*****	***	***	*****
125	1.02	*****	5.34							125	1.02	*****	5.34	*****	***	***	*****
150	.82	*****	5.34							150	.82	*****	5.34	*****	***	***	*****
200	.45	*****	5.64							200	.45	*****	5.64	*****	***	***	*****
250	.47	*****	5.34							250	.47	*****	5.34	*****	***	***	*****
300	.35	*****	5.93							300	.35	*****	5.93	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-04 , 37-53.7. N, 129-03.8. E, OCT.24.1980, 14.30 KST, DEPTH 710 , COLOR , TPANS. . .
 WAVE 3, SWELL 1, WIND SE 3, EARD 1008. , AIR TEMP. DRY 16.5, WET . , CLOUD. TYPE ST, AMT 10, WEATHER C ,

0	18.52	*****	5.54							0	18.52	*****	5.54	*****	***	***	.0000
10	16.58	*****	4.37							10	16.58	*****	4.37	*****	***	***	*****
20	16.29	*****	5.05							20	16.29	*****	5.05	*****	***	***	*****
30	15.09	*****	4.66							30	15.09	*****	4.66	*****	***	***	*****
50	8.12	*****	4.96							50	8.12	*****	4.96	*****	***	***	*****
75	3.00	*****	5.34							75	3.00	*****	5.34	*****	***	***	*****
100	2.74	*****	5.44							100	2.74	*****	5.44	*****	***	***	*****
125	2.06	*****	5.05							125	2.06	*****	5.05	*****	***	***	*****
150	1.52	*****	5.73							150	1.52	*****	5.73	*****	***	***	*****
200	1.04	*****	5.73							200	1.04	*****	5.73	*****	***	***	*****
250	.78	*****	6.12							250	.78	*****	6.12	*****	***	***	*****
300	.71	*****	5.73							300	.71	*****	5.73	*****	***	***	*****
400	.30	*****	5.54							400	.30	*****	5.54	*****	***	***	*****
500	.26	*****	5.64							500	.26	*****	5.64	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-U5 , 37-53.7. N, 129-22.1. E, OCT.24,1980, 17.00 KST, DEPTH 1120 , COLOR , TRANS. . ,

WAVE 4, SWELL 2, WIND SE 4, BARO 1007. , AIR TEMP. DRY 16.5, WET , CLOUD. TYPE C1, AMT 10, WEATHER C ,

0	19.03	*****	5.34						0	19.03	*****	5.34	*****	***	***	.0000
10	19.21	*****	4.86						10	19.21	*****	4.86	*****	***	***	*****
20	19.09	*****	4.76						20	19.09	*****	4.76	*****	***	***	*****
30	18.95	*****	4.66						30	18.05	*****	4.66	*****	***	***	*****
50	14.62	*****	5.86						50	14.62	*****	5.86	*****	***	***	*****
75	9.99	*****	5.25						75	9.09	*****	5.25	*****	***	***	*****
100	8.64	*****	4.86						100	8.64	*****	4.86	*****	***	***	*****
125	8.11	*****	5.25						125	8.11	*****	5.25	*****	***	***	*****
150	7.08	*****	5.44						150	7.08	*****	5.44	*****	***	***	*****
200	3.04	*****	5.25						200	3.04	*****	5.25	*****	***	***	*****
250	1.17	*****	5.34						250	1.17	*****	5.34	*****	***	***	*****
300	.65	*****	5.83						300	.65	*****	5.83	*****	***	***	*****
400	.68	*****	5.34						400	.68	*****	5.34	*****	***	***	*****
500	.52	*****	5.05						500	.52	*****	5.05	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 106-U6 , 37-53.0. N, 129-41.3. E, OCT.24,1980, 19.40 KST, DEPTH 1620 , COLOR , TRANS. . ,

WAVE 4, SWELL 3, WIND SE 6, BARO 1007. , AIR TEMP. DRY 15.8, WET , CLOUD. TYPE , AMT 10, WEATHER P ,

0	19.78	*****	4.86						0	19.78	*****	4.86	*****	***	***	.0000
10	19.93	*****	5.15						10	19.93	*****	5.15	*****	***	***	*****
20	19.75	*****	5.15						20	19.75	*****	5.15	*****	***	***	*****
30	19.69	*****	4.96						30	19.69	*****	4.96	*****	***	***	*****
50	18.53	*****	4.28						50	18.53	*****	4.28	*****	***	***	*****
75	17.58	*****	5.15						75	17.58	*****	5.15	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	12.12	*****	5.54							100	12.12	*****	5.54	*****	***	***	*****
125	10.33	*****	5.54							125	10.33	*****	5.54	*****	***	***	*****
150	9.42	*****	5.44							150	9.42	*****	5.44	*****	***	***	*****
200	6.38	*****	5.15							200	6.38	*****	5.15	*****	***	***	*****
250	3.80	*****	5.44							250	3.80	*****	5.44	*****	***	***	*****
300	3.69	*****	5.15							300	3.69	*****	5.15	*****	***	***	*****
400	1.35	*****	5.44							400	1.35	*****	5.44	*****	***	***	*****
500	.81	*****	5.57							500	.81	*****	5.57	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, OCT-29-1980, 21.10 PST, DEPTH 1060 , COLOR , TRANS. ,																	
WAVE 3, SWELL , WIND NE 3, BARO 1015.5, AIR TEMP. DRY 11.5, WET , CLOUD. TYPE , AMT 3, WEATHER BC,																	
0	17.63	*****	5.05							0	17.63	*****	5.05	*****	***	***	.0000
10	17.81	*****	3.98							10	17.81	*****	3.98	*****	***	***	*****
20	17.57	*****	4.86							20	17.57	*****	4.86	*****	***	***	*****
30	17.40	*****	4.37							30	17.40	*****	4.37	*****	***	***	*****
50	17.33	*****	5.05							50	17.33	*****	5.05	*****	***	***	*****
75	14.11	*****	5.34							75	14.11	*****	5.34	*****	***	***	*****
100	10.06	*****	3.54							100	10.06	*****	3.54	*****	***	***	*****
125	7.87	*****	5.05							125	7.87	*****	5.05	*****	***	***	*****
150	6.27	*****	5.34							150	6.27	*****	5.34	*****	***	***	*****
200	1.74	*****	5.34							200	1.74	*****	5.34	*****	***	***	*****
250	.69	*****	5.15							250	.69	*****	5.15	*****	***	***	*****
300	.58	*****	5.34							300	.58	*****	5.34	*****	***	***	*****
400	.81	*****	5.05							400	.81	*****	5.05	*****	***	***	*****
500	.52	*****	5.05							500	.52	*****	5.05	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, OCT.29.1980, 23.50 KST, DEPTH 1800 , COLOR , TRANS. ,																	
WAVE 3, SWELL 1, WIND SE 3, BARO 1015. , AIR TEMP. DRY 12.0, WET , , CLOUD. TYPE , AMT 3, WEATHER FC,																	
0	17.27	*****	5.05							0	17.27	*****	5.05	*****	***	***	.0000
10	17.36	*****	5.34							10	17.36	*****	5.34	*****	***	***	*****
20	17.33	*****	5.05							20	17.33	*****	5.05	*****	***	***	*****
30	17.31	*****	4.86							30	17.31	*****	4.86	*****	***	***	*****
50	17.20	*****	3.98							50	17.20	*****	3.98	*****	***	***	*****
75	15.12	*****	5.34							75	15.12	*****	5.34	*****	***	***	*****
100	11.24	*****	5.63							100	11.24	*****	5.63	*****	***	***	*****
125	10.42	*****	5.24							125	10.42	*****	5.24	*****	***	***	*****
150	7.97	*****	5.15							150	7.97	*****	5.15	*****	***	***	*****
200	1.89	*****	5.05							200	1.89	*****	5.05	*****	***	***	*****
250	.95	*****	5.25							250	.95	*****	5.25	*****	***	***	*****
300	.82	*****	5.34							300	.82	*****	5.34	*****	***	***	*****
400	.53	*****	5.15							400	.53	*****	5.15	*****	***	***	*****
500	.32	*****	5.05							500	.32	*****	5.05	*****	***	***	*****
KOREA , CHUN MA SAN , STATION 106-09 , 37-53.7. N, 130-17.7. E, OCT.30.1980, 02.10 KST, DEPTH 2250 , COLOR , TRANS. ,																	
WAVE 3, SWELL 2, WIND SW 3, BARO 1015. , AIR TEMP. DRY 12.0, WET , , CLOUD. TYPE , AMT 3, WEATHER FC,																	
0	16.88	*****	5.15							0	16.88	*****	5.15	*****	***	***	.0000
10	17.73	*****	5.05							10	17.73	*****	5.05	*****	***	***	*****
20	17.19	*****	5.05							20	17.19	*****	5.05	*****	***	***	*****
30	17.07	*****	4.86							30	17.07	*****	4.86	*****	***	***	*****
50	17.00	*****	4.66							50	17.00	*****	4.66	*****	***	***	*****
75	14.18	*****	4.57							75	14.18	*****	4.57	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.31	*****	4.37							100	10.71	*****	4.37	*****	***	***	*****
125	9.04	*****	4.76							125	9.04	*****	4.76	*****	***	***	*****
150	5.54	*****	5.34							150	5.54	*****	5.34	*****	***	***	*****
200	2.34	*****	5.34							200	2.34	*****	5.34	*****	***	***	*****
250	2.19	*****	5.54							250	2.19	*****	5.54	*****	***	***	*****
300	1.03	*****	5.83							300	1.03	*****	5.83	*****	***	***	*****
400	.75	*****	5.15							400	.75	*****	5.15	*****	***	***	*****
500	.57	*****	4.86							500	.57	*****	4.86	*****	***	***	*****
KOREA , CHUN MA SAN , STATION 100-10 , 37-53.7. N, 130-56.5. E, OCT.30.1980, 04.50 KST, DEPTH 1980 , COLOR , TRANS. ,																	
WAVE 3, SWELL 1, WIND SW 3, BARO 1014.5, AIR TEMP. DRY 12.3, WET 0 16.65 ***** 5.05 ***** 5																	

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , CHUN MA SAN , STATION 106-11 , 37-53.7. N, 121-15.1. E, OCT.30.1980, 07.20 KST, DEPTH 2070 , COLOR , TRANS. ,																	
WAVE	3, SWELL	, WIND SW 3, EARO 1014.5, AIR TEMP. PRY 13.5, WET , , CLOUD. TYPE CI, AMT 3, WEATHER FC,															
0	17.62	*****	4.64							0	17.62	*****	4.86	*****	***	***	.0000
10	17.84	*****	4.37							10	17.84	*****	4.37	*****	***	***	*****
20	17.84	*****	5.05							20	17.84	*****	5.05	*****	***	***	*****
30	17.56	*****	5.05							30	17.56	*****	5.05	*****	***	***	*****
50	16.52	*****	4.96							50	16.52	*****	4.96	*****	***	***	*****
75	15.45	*****	4.86							75	15.45	*****	4.86	*****	***	***	*****
100	11.03	*****	5.34							100	11.03	*****	5.34	*****	***	***	*****
125	10.57	*****	5.15							125	10.57	*****	5.15	*****	***	***	*****
150	6.61	*****	4.86							150	6.61	*****	4.86	*****	***	***	*****
200	2.77	*****	4.95							200	2.77	*****	4.95	*****	***	***	*****
250	1.73	*****	5.34							250	1.73	*****	5.34	*****	***	***	*****
300	1.45	*****	5.44							300	1.45	*****	5.44	*****	***	***	*****
400	.75	*****	5.34							400	.75	*****	5.34	*****	***	***	*****
500	.58	*****	5.25							500	.58	*****	5.25	*****	***	***	*****

12월(December)

KOREA , CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, DEC.22.1980, 17.40 KST, DEPTH 50 , COLOR 4, TRANS. 13.5,																	
WAVE	1, SWELL	, WIND SW 1, EARO 1014.5, AIR TEMP. PRY 8.4, WET , , CLOUD. TYPE CI, AMT 9, WEATHER C ,															
0	11.08	*****	5.34							0	11.08	*****	5.34	*****	***	***	.0000
10	11.12	*****	5.43							10	11.12	*****	5.43	*****	***	***	*****
20	10.28	*****	5.05							20	10.28	*****	5.05	*****	***	***	*****
30	9.69	*****	4.96							30	9.69	*****	4.96	*****	***	***	*****
50	7.19	*****	4.77							50	7.19	*****	4.77	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, DEC.22.1980, 16.30 YST, DEPTH 320 , COLOR 4, TRANS. 16.0.

WAVE 1, SWELL 1, WIND SW 1, BARO 1015.5, AIR TEMP. DRY 3.4, WET . , CLOUD. TYPE CI, AMT 9, WEATHER C ,

0	11.44	*****	5.15							0	11.44	*****	5.15	*****	***	***	.0000
10	12.00	*****	5.05							10	12.00	*****	5.05	*****	***	***	*****
20	11.05	*****	5.05							20	11.05	*****	5.05	*****	***	***	*****
30	10.89	*****	5.34							30	10.89	*****	5.34	*****	***	***	*****
50	10.08	*****	5.43							50	10.08	*****	5.43	*****	***	***	*****
75	10.31	*****	4.96							75	10.31	*****	4.96	*****	***	***	*****
100	5.36	*****	4.86							100	5.36	*****	4.86	*****	***	***	*****
125	4.73	*****	4.77							125	4.73	*****	4.77	*****	***	***	*****
150	2.55	*****	4.96							150	2.55	*****	4.96	*****	***	***	*****
200	1.53	*****	4.77							200	1.53	*****	4.77	*****	***	***	*****
250	.22	*****	4.86							250	.22	*****	4.86	*****	***	***	*****
300	.11	*****	4.77							300	.11	*****	4.77	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 106-04 , 37-53.7. N, 128-03.8. E, DEC.22.1980, 15.10 YST, DEPTH 710 , COLOR , TRANS. ,

WAVE 1, SWELL 1, WIND SW 1, BARO 1017.5, AIR TEMP. DRY 1.4, WET . , CLOUD. TYPE CI, AMT 9, WEATHER C ,

0	11.80	*****	5.43							0	11.80	*****	5.43	*****	***	***	.0000
10	11.93	*****	5.34							10	11.93	*****	5.34	*****	***	***	*****
20	11.97	*****	5.15							20	11.97	*****	5.15	*****	***	***	*****
30	11.87	*****	5.24							30	11.87	*****	5.24	*****	***	***	*****
50	11.88	*****	5.34							50	11.88	*****	5.34	*****	***	***	*****
75	10.39	*****	5.05							75	10.39	*****	5.05	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	8.92	*****	4.58							100	8.92	*****	4.58	*****	***	***	*****
125	8.84	*****	4.96							125	8.84	*****	4.96	*****	***	***	*****
150	4.36	*****	4.96							150	4.36	*****	4.96	*****	***	***	*****
200	2.50	*****	5.05							200	2.50	*****	5.05	*****	***	***	*****
250	1.24	*****	4.67							250	1.24	*****	4.67	*****	***	***	*****
300	.88	*****	4.86							300	.88	*****	4.86	*****	***	***	*****
400	.52	*****	4.77							400	.52	*****	4.77	*****	***	***	*****
500	.31	*****	4.77							500	.31	*****	4.77	*****	***	***	*****
KOREA , CHUN MA SAN , STATION 106-05 , 37-53.7. N, 120-22.1. E, DEC.22.1980, 12.10 PST, DEPTH 1120 , COLOR , TPANS. . .																	
WAVE	2, SWELL	1, WIND SW	2, BARO 1018. , AIR TEMP. DRY	2.5, WET	. , CLOUD. TYPE ST, AMT	3, WEATHER EC,											
0	11.42	*****	5.34							0	11.42	*****	5.34	*****	***	***	.0000
10	11.43	*****	5.43							10	11.43	*****	5.43	*****	***	***	*****
20	11.42	*****	5.53							20	11.42	*****	5.53	*****	***	***	*****
30	11.42	*****	5.05							30	11.42	*****	5.05	*****	***	***	*****
50	11.36	*****	5.15							50	11.36	*****	5.15	*****	***	***	*****
75	10.32	*****	5.24							75	10.32	*****	5.24	*****	***	***	*****
100	9.12	*****	5.34							100	9.12	*****	5.34	*****	***	***	*****
125	5.63	*****	5.34							125	5.63	*****	5.34	*****	***	***	*****
150	4.37	*****	5.15							150	4.37	*****	5.15	*****	***	***	*****
200	1.07	*****	5.05							200	1.07	*****	5.05	*****	***	***	*****
250	.74	*****	4.96							250	.74	*****	4.96	*****	***	***	*****
300	.58	*****	4.86							300	.58	*****	4.86	*****	***	***	*****
400	.56	*****	4.77							400	.56	*****	4.77	*****	***	***	*****
500	.35	*****	4.86							500	.35	*****	4.86	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	Q2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.0. N, 120-41.3. E, DEC.22.1980, 09.20 KST, DEPTH 1620 , COLOR , TRANS. ,																	
WAVE	2, SWELL	1, WIND NW	1, BARO 1018. , AIR TEMP. DRY	1.0, WET	, CLOUD. TYPE ST, AMT 3, WEATHER FC,												
0	11.48	*****	5.34							0	11.48	*****	5.34	*****	***	***	.0000
10	12.24	*****	5.34							10	12.24	*****	5.34	*****	***	***	*****
20	11.37	*****	5.15							20	11.37	*****	5.15	*****	***	***	*****
30	11.37	*****	5.24							30	11.37	*****	5.24	*****	***	***	*****
50	11.00	*****	4.96							50	11.00	*****	4.96	*****	***	***	*****
75	10.64	*****	5.05							75	10.64	*****	5.05	*****	***	***	*****
100	10.17	*****	5.34							100	10.17	*****	5.34	*****	***	***	*****
125	7.78	*****	4.86							125	7.78	*****	4.86	*****	***	***	*****
150	5.61	*****	4.58							150	5.61	*****	4.58	*****	***	***	*****
200	2.28	*****	5.34							200	2.28	*****	5.34	*****	***	***	*****
250	1.04	*****	4.86							250	1.04	*****	4.86	*****	***	***	*****
300	.70	*****	4.96							300	.70	*****	4.96	*****	***	***	*****
400	.46	*****	5.05							400	.46	*****	5.05	*****	***	***	*****
500	.52	*****	4.96							500	.52	*****	4.96	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. F, DEC.22.1980, 06.30 KST, DEPTH 1060 , COLOR , TRANS. ,																	
WAVE	2, SWELL	1, WIND NW	2, BARO 1018. , AIR TEMP. DRY	1.5, WET	, CLOUD. TYPE , AMT , WEATHER R ,												
0	11.04	*****	5.34							0	11.04	*****	5.34	*****	***	***	.0000
10	11.16	*****	5.43							10	11.16	*****	5.43	*****	***	***	*****
20	11.14	*****	5.53							20	11.14	*****	5.53	*****	***	***	*****
30	11.04	*****	5.34							30	11.04	*****	5.34	*****	***	***	*****
50	11.03	*****	5.24							50	11.03	*****	5.24	*****	***	***	*****
75	10.76	*****	5.15							75	10.76	*****	5.15	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100	7.91	*****	5.24							100	7.91	*****	5.24	*****	***	***	*****
125	5.51	*****	5.34							125	5.51	*****	5.34	*****	***	***	*****
150	3.79	*****	5.05							150	3.79	*****	5.05	*****	***	***	*****
200	1.61	*****	5.15							200	1.61	*****	5.15	*****	***	***	*****
250	1.04	*****	4.96							250	1.04	*****	4.96	*****	***	***	*****
300	.60	*****	4.96							300	.60	*****	4.96	*****	***	***	*****
400	.39	*****	4.77							400	.39	*****	4.77	*****	***	***	*****
500	.33	*****	4.58							500	.33	*****	4.58	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, DEC.22.1980, 03.40 VST, DEPTH 1800 , COLOR , TPANS. . .

WAVE 2, SUELL 1, WIND NW 2, BARO 1018. , AIR TEMP. DRY 2.3, WET . , CLOUD. TYPE , AMT , WEATHER F ,

0	13.28	*****	5.34							0	13.28	*****	5.34	*****	***	***	.0000
10	14.14	*****	5.43							10	14.14	*****	5.43	*****	***	***	*****
20	13.11	*****	5.34							20	13.11	*****	5.34	*****	***	***	*****
30	12.94	*****	5.53							30	12.94	*****	5.53	*****	***	***	*****
50	12.52	*****	5.05							50	12.52	*****	5.05	*****	***	***	*****
75	9.92	*****	5.15							75	9.92	*****	5.15	*****	***	***	*****
100	5.99	*****	4.96							100	5.99	*****	4.96	*****	***	***	*****
125	4.02	*****	5.05							125	4.02	*****	5.05	*****	***	***	*****
150	2.93	*****	4.77							150	2.93	*****	4.77	*****	***	***	*****
200	1.60	*****	5.15							200	1.60	*****	5.15	*****	***	***	*****
250	.67	*****	4.86							250	.67	*****	4.86	*****	***	***	*****
300	.68	*****	4.77							300	.68	*****	4.77	*****	***	***	*****
400	.57	*****	4.86							400	.57	*****	4.86	*****	***	***	*****
500	.36	*****	4.67							500	.36	*****	4.67	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA ,CHUN MA SAN , STATION 106-00 , 37-53.7. N, 130-37.7. E, DEC.21.1980, 23.50 KST, DEPTH 2250 , COLOR , TFANS. . .

WAVE 2, SWELL 1, WIND NW 2, EARO 1019. , AIR TEMP. DRY 3.5, WET . , CLOUD. TYPE C1, AMT 3, WEATHER BC,																	
0	14.00	*****	5.53							0	14.00	*****	5.53	*****	***	***	00.00
10	14.40	*****	5.34							10	14.40	*****	5.34	*****	***	***	*****
20	14.51	*****	5.43							20	14.51	*****	5.43	*****	***	***	*****
30	14.50	*****	5.34							30	14.50	*****	5.34	*****	***	***	*****
50	14.28	*****	5.15							50	14.28	*****	5.15	*****	***	***	*****
75	13.90	*****	5.34							75	13.90	*****	5.34	*****	***	***	*****
100	13.76	*****	5.43							100	13.76	*****	5.43	*****	***	***	*****
125	13.21	*****	5.24							125	13.21	*****	5.24	*****	***	***	*****
150	6.12	*****	5.05							150	6.12	*****	5.05	*****	***	***	*****
200	4.23	*****	4.96							200	4.23	*****	4.96	*****	***	***	*****
250	1.28	*****	5.15							250	1.28	*****	5.15	*****	***	***	*****
300	.72	*****	4.96							300	.72	*****	4.96	*****	***	***	*****
400	.33	*****	4.77							400	.33	*****	4.77	*****	***	***	*****
500	.32	*****	4.86							500	.32	*****	4.86	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 106-10 , 37-53.7. N, 130-56.5. E, DEC.21.1980, 20.10 KST, DEPTH 1980 , COLOR , TFANS. . .

WAVE 2, SWELL 1, WIND NW 2, BARO 1019. , AIR TEMP. DRY 3.6, WET . , CLOUD. TYPE ST, AMT 8, WEATHER C ,																	
0	10.54	*****	5.15							0	10.54	*****	5.15	*****	***	***	0000
10	10.79	*****	5.05							10	10.79	*****	5.05	*****	***	***	*****
20	10.10	*****	5.34							20	10.10	*****	5.34	*****	***	***	*****
30	10.81	*****	5.53							30	10.81	*****	5.53	*****	***	***	*****
50	10.69	*****	5.05							50	10.69	*****	5.05	*****	***	***	*****
75	10.52	*****	5.15							75	10.52	*****	5.15	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.45	*****	4.96							100	10.45	*****	4.96	*****	***	***	*****
125	9.65	*****	4.96							125	9.65	*****	4.96	*****	***	***	*****
150	8.81	*****	5.05							150	8.81	*****	5.05	*****	***	***	*****
200	7.82	*****	5.15							200	7.82	*****	5.15	*****	***	***	*****
250	4.27	*****	5.05							250	4.27	*****	5.05	*****	***	***	*****
300	3.07	*****	4.96							300	3.07	*****	4.96	*****	***	***	*****
400	.74	*****	4.86							400	.74	*****	4.86	*****	***	***	*****
500	.46	*****	4.58							500	.46	*****	4.58	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 106-11 , 37-53.7. N, 131-15.1. E, DE. 21.1980, 17.10 KST, DEPTH 2070 , COLOR , TRANS. . .

WAVE 2, SWELL 2, WIND NW 3, BARO 1019. , AIP TEMP. DRY 5.5, WET . , CLOUD. TYPE NS, AMT 9, WEATHER C ,

0	10.22	*****	5.72							0	10.22	*****	5.72	*****	***	***	.0000
10	11.87	*****	5.43							10	11.87	*****	5.43	*****	***	***	*****
20	11.15	*****	5.34							20	11.15	*****	5.34	*****	***	***	*****
30	11.13	*****	5.43							30	11.13	*****	5.43	*****	***	***	*****
50	11.18	*****	5.24							50	11.18	*****	5.24	*****	***	***	*****
75	11.06	*****	5.05							75	11.06	*****	5.05	*****	***	***	*****
100	10.86	*****	5.15							100	10.86	*****	5.15	*****	***	***	*****
125	10.05	*****	4.96							125	10.05	*****	4.96	*****	***	***	*****
150	9.88	*****	4.86							150	9.88	*****	4.86	*****	***	***	*****
200	9.23	*****	4.86							200	9.23	*****	4.86	*****	***	***	*****
250	8.29	*****	5.05							250	8.29	*****	5.05	*****	***	***	*****
300	2.64	*****	5.15							300	2.64	*****	5.15	*****	***	***	*****
400	.81	*****	4.96							400	.81	*****	4.96	*****	***	***	*****
500	.26	*****	4.86							500	.26	*****	4.86	*****	***	***	*****

105선 해양관측성적

Oceanographic Data. Line 105

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

2월(February)

KOREA , CHUN MA SAN , STATION 105-03 , 37-33.2. N, 129-10.3. E, FEB.23.1980, 03.30 KST, DEPTH 48 , COLOR , TRANS. . .
 WAVE , SWELL 3, WIND SW 6, BARO 1020. , AIR TEMP. DRY 1.8, WET . , CLOUD. TYPE , AMT 4, WEATHER PC,
 0 8.32 ***** 6.70 0 8.32 ***** 6.70 ***** *** *** .0000
 10 8.32 ***** 6.71 10 8.32 ***** 6.71 ***** *** ***
 20 8.28 ***** 6.70 20 8.28 ***** 6.70 ***** *** ***
 30 8.09 ***** 6.72 30 8.09 ***** 6.72 ***** *** ***
 45 4.70 ***** 7.26

KOREA , CHUN MA SAN , STATION 105-04 , 37-33.2. N, 129-15.5. E, FEB.23.1980, 02.00 KST, DEPTH 250 , COLOR , TRANS. . .
 WAVE , SWELL 3, WIND SW 5, BARO 1020. , AIR TEMP. DRY 2.0, WET . , CLOUD. TYPE , AMT 4, WEATHER PC,
 0 8.18 ***** 6.72 0 8.18 ***** 6.72 ***** *** *** .0000
 10 7.98 ***** 6.75 10 7.98 ***** 6.75 ***** *** ***
 20 7.96 ***** 6.75 20 7.96 ***** 6.75 ***** *** ***
 30 7.53 ***** 6.83 30 7.53 ***** 6.83 ***** *** ***
 50 4.65 ***** 7.28 50 4.65 ***** 7.28 ***** *** ***
 75 3.48 ***** 7.49 75 3.48 ***** 7.49 ***** *** ***
 100 2.68 ***** 7.62 100 2.68 ***** 7.62 ***** *** ***
 125 2.12 ***** 7.73 125 2.12 ***** 7.73 ***** *** ***
 150 1.89 ***** 7.76 150 1.89 ***** 7.76 ***** *** ***
 200 .38 ***** 8.06 200 .38 ***** 8.06 ***** *** ***

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA JAN , STATION 105-05 , 37-33.2. N, 120-22.6. E, FEB.23.1980, 00.20 KST, DEPTH 350 , COLOR , TRANS. . .

WAVE , SWELL 2, WIND SS= 5, BARO 1019.5, AIR TEMP. DRY 2.0, WET . , CLOUD. TYPE , AMT 4, WEATHER FC,

0	8.98	*****	6.63							0	8.98	*****	6.63	*****	***	***	.0000
10	8.72	*****	6.64							10	8.72	*****	6.64	*****	***	***	*****
20	7.62	*****	6.79							20	7.62	*****	6.79	*****	***	***	*****
30	7.18	*****	6.86							30	7.18	*****	6.86	*****	***	***	*****
50	6.58	*****	6.95							50	6.58	*****	6.95	*****	***	***	*****
75	6.23	*****	7.02							75	6.23	*****	7.02	*****	***	***	*****
100	5.02	*****	7.19							100	5.02	*****	7.19	*****	***	***	*****
125	3.85	*****	7.41							125	3.85	*****	7.41	*****	***	***	*****
150	2.52	*****	7.65							150	2.52	*****	7.65	*****	***	***	*****
200	.73	*****	7.98							200	.73	*****	7.98	*****	***	***	*****
250	.42	*****	8.05							250	.42	*****	8.05	*****	***	***	*****
300	.29	*****	8.09							300	.29	*****	8.09	*****	***	***	*****

KOREA , CHUN MA JAN , STATION 105-06 , 37-33.2. N, 120-41.3. E, FEB.22.1980, 21.20 KST, DEPTH 810 , COLOR , TRANS. . .

WAVE 5, SWELL 2, WIND S 5, BARO 1019. , AIR TEMP. DRY 2.5, WET . , CLOUD. TYPE , AMT 5, WEATHER FC,

0	9.58	*****	6.53							0	9.58	*****	6.53	*****	***	***	.0000
10	9.69	*****	6.52							10	9.69	*****	6.52	*****	***	***	*****
20	9.68	*****	6.51							20	9.68	*****	6.51	*****	***	***	*****
30	9.65	*****	6.52							30	9.65	*****	6.52	*****	***	***	*****
50	9.59	*****	6.53							50	9.59	*****	6.53	*****	***	***	*****
75	9.49	*****	6.54							75	9.49	*****	6.54	*****	***	***	*****
100	9.48	*****	6.55							100	9.48	*****	6.55	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

125	9.42	*****	6.55							125	9.42	*****	6.55	*****	***	***	*****
150	9.40	*****	6.56							150	9.40	*****	6.56	*****	***	***	*****
200	9.35	*****	6.56							200	9.35	*****	6.56	*****	***	***	*****
250	8.72	*****	6.64							250	8.72	*****	6.64	*****	***	***	*****
300	4.74	*****	7.25							300	4.74	*****	7.25	*****	***	***	*****
400	1.95	*****	7.75							400	1.95	*****	7.75	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-07 , 37-33.2 N, 130-00.0 E, FEB.22,1980, 18.20 VST, DEPTH 1480 , COLOR , TPANS. . .

WAVE	4, SWELL	2, WIND SSE	5, EARO 1021. , AIR TEMP. DRY	2.8, WET	, CLOUD. TYPE ST, AMT	7, WEATHER FC,											
0	9.82	*****	6.50		0	9.82	*****	6.50	*****	***	***	***	***	***	***	***	.0000
10	9.86	*****	6.49		10	9.86	*****	6.49	*****	***	***	***	***	***	***	***	*****
20	9.85	*****	6.50		20	9.85	*****	6.50	*****	***	***	***	***	***	***	***	*****
30	9.84	*****	6.50		30	9.84	*****	6.50	*****	***	***	***	***	***	***	***	*****
50	9.81	*****	6.51		50	9.81	*****	6.51	*****	***	***	***	***	***	***	***	*****
75	9.82	*****	6.50		75	9.82	*****	6.50	*****	***	***	***	***	***	***	***	*****
100	9.80	*****	6.51		100	9.80	*****	6.51	*****	***	***	***	***	***	***	***	*****
125	9.77	*****	6.51		125	9.77	*****	6.51	*****	***	***	***	***	***	***	***	*****
150	9.75	*****	6.50		150	9.75	*****	6.50	*****	***	***	***	***	***	***	***	*****
200	9.74	*****	6.51		200	9.74	*****	6.51	*****	***	***	***	***	***	***	***	*****
250	9.33	*****	6.57		250	9.33	*****	6.57	*****	***	***	***	***	***	***	***	*****
300	7.31	*****	6.84		300	7.31	*****	6.84	*****	***	***	***	***	***	***	***	*****
400	2.00	*****	7.74		400	2.00	*****	7.74	*****	***	***	***	***	***	***	***	*****
500	.69	*****	*****		500	.69	*****	*****	*****	***	***	***	***	***	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-18.7. E, FEB.22.1980, 15.20 KST, DEPTH 1503 , COLOR 3, TRANS. 21.0,
 WAVE 5, SWELL 2, WIND SE 5, EARO 1023.5, AIR TEMP. DRY 3.3, WET . , CLOUD. TYPE CT, AMT 6, WEATHER PC,

0	9.80	*****	6.49							0	9.80	*****	6.49	*****	***	***	.0000
10	9.88	*****	6.49							10	9.88	*****	6.49	*****	***	***	*****
20	9.89	*****	6.48							20	9.89	*****	6.48	*****	***	***	*****
30	9.89	*****	6.48							30	9.89	*****	6.48	*****	***	***	*****
50	9.87	*****	6.49							50	9.87	*****	6.49	*****	***	***	*****
75	9.86	*****	6.49							75	9.86	*****	6.49	*****	***	***	*****
100	9.77	*****	6.50							100	9.77	*****	6.50	*****	***	***	*****
125	9.77	*****	6.51							125	9.77	*****	6.51	*****	***	***	*****
150	9.76	*****	6.51							150	9.76	*****	6.51	*****	***	***	*****
200	9.75	*****	6.51							200	9.75	*****	6.51	*****	***	***	*****
250	9.50	*****	6.54							250	9.50	*****	6.54	*****	***	***	*****
300	6.68	*****	6.95							300	6.68	*****	6.95	*****	***	***	*****
400	1.95	*****	7.07							400	1.95	*****	7.07	*****	***	***	*****
500	.87	*****	7.96							500	.87	*****	7.96	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-00 , 37-33.2. N, 130-37.5. E, FEB.22.1980, 12.20 KST, DEPTH 1140 , COLOR 3, TRANS. 25.0,
 WAVE 5, SWELL 2, WIND NNE 5, EARO 1024. , AIR TEMP. DRY 3.1, WET . , CLOUD. TYPE CI, AMT 5, WEATHER FC,

0	9.82	*****	6.50							0	9.82	*****	6.50	*****	***	***	.0000
10	9.85	*****	*****							10	9.85	*****	*****	*****	***	***	*****
20	9.87	*****	6.49							20	9.87	*****	6.49	*****	***	***	*****
30	9.88	*****	6.49							30	9.88	*****	6.49	*****	***	***	*****
50	9.88	*****	6.50							50	9.88	*****	6.50	*****	***	***	*****
75	9.87	*****	6.49							75	9.87	*****	6.49	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	9.87	*****	6.49							100	9.87	*****	6.49	*****	***	***	*****
125	9.85	*****	6.49							125	9.85	*****	6.49	*****	***	***	*****
150	9.83	*****	6.50							150	9.83	*****	6.50	*****	***	***	*****
200	9.81	*****	6.50							200	9.81	*****	6.50	*****	***	***	*****
250	9.78	*****	6.50							250	9.78	*****	6.50	*****	***	***	*****
300	6.83	*****	6.50							300	6.83	*****	6.50	*****	***	***	*****
400	5.05	*****	6.91							400	5.05	*****	6.91	*****	***	***	*****
500	2.15	*****	7.72							500	2.15	*****	7.72	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, FEB.22.1980, 09.20 KST, DEPTH 1800 , COLOR 3, TRANS. 25.0																	
WAVE 5, SWELL 2, WIND E 5, BARO 1025. , AIR TEMP. DRY 2.2, WET 0 9.83 ***** 6.50 ***** *** *** =.0000																	
0	9.83	*****	6.50							0	9.83	*****	6.50	*****	***	***	*****
10	9.84	*****	6.49							10	9.84	*****	6.49	*****	***	***	*****
20	9.89	*****	6.49							20	9.89	*****	6.49	*****	***	***	*****
30	9.89	*****	6.49							30	9.89	*****	6.49	*****	***	***	*****
50	9.88	*****	6.48							50	9.88	*****	6.48	*****	***	***	*****
75	9.81	*****	6.50							75	9.81	*****	6.50	*****	***	***	*****
100	9.83	*****	6.49							100	9.83	*****	6.49	*****	***	***	*****
125	9.82	*****	6.49							125	9.82	*****	6.49	*****	***	***	*****
150	9.73	*****	6.51							150	9.73	*****	6.51	*****	***	***	*****
200	9.70	*****	6.52							200	9.70	*****	6.52	*****	***	***	*****
250	9.66	*****	6.52							250	9.66	*****	6.52	*****	***	***	*****
300	4.79	*****	7.24							300	4.79	*****	7.24	*****	***	***	*****
400	1.73	*****	7.80							400	1.73	*****	7.80	*****	***	***	*****
500	1.43	*****	7.87							500	1.43	*****	7.87	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, FEB. 18, 1980, 16.50 KST, DEPTH 2375 , COLOR 4, TRANS. . .																	
WAVE	5, SWELL	3, WIND SE	5, BARO 1018. , AIR TEMP. DRY	1.2, WET	. , CLOUD. TYPE ST, AMT 10, WEATHER C ,												
0	9.99	*****	6.49							0	9.99	*****	6.49	*****	***	***	.0000
10	9.98	*****	6.48							10	9.98	*****	6.48	*****	***	***	*****
20	9.81	*****	6.50							20	9.81	*****	6.50	*****	***	***	*****
30	9.76	*****	6.51							30	9.76	*****	6.51	*****	***	***	*****
50	9.75	*****	6.50							50	9.75	*****	6.50	*****	***	***	*****
75	9.70	*****	6.51							75	9.70	*****	6.51	*****	***	***	*****
100	9.60	*****	6.53							100	9.60	*****	6.53	*****	***	***	*****
125	9.60	*****	6.52							125	9.60	*****	6.52	*****	***	***	*****
150	9.22	*****	6.58							150	9.22	*****	6.58	*****	***	***	*****
200	9.11	*****	6.59							200	9.11	*****	6.59	*****	***	***	*****
250	8.66	*****	6.65							250	8.66	*****	6.65	*****	***	***	*****
300	7.09	*****	6.87							300	7.09	*****	6.87	*****	***	***	*****
400	2.43	*****	7.67							400	2.43	*****	7.67	*****	***	***	*****
500	.76	*****	7.99							500	.76	*****	7.99	*****	***	***	*****

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KOREA , CHUN MA SAN , STATION 105-03 , 37-33.2. N, 129-10.3. E, APR. 16, 1980, 09.10 KST, DEPTH 48 , COLOR 4, TRANS. 13.0.																	
WAVE	3, SWELL	2, WIND SW	4, BARO 1012. , AIR TEMP. DRY	7.5, WET	. , CLOUD. TYPE ST, AMT 10, WEATHER R ,												
0	10.34	*****	6.41							0	10.34	*****	6.41	*****	***	***	.0000
10	10.74	*****	6.36							10	10.74	*****	6.36	*****	***	***	*****
20	10.55	*****	6.38							20	10.55	*****	6.38	*****	***	***	*****
30	9.64	*****	6.50							30	9.64	*****	6.50	*****	***	***	*****
45	4.61	*****	7.23							45	4.61	*****	7.23	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA ,CHUN MA SAN , STATION 105-04 , 37-53.2. N, 120-15.5. E, APR.16.1980, 10.30 PST, DEPTH 250 , COLOR , TRANS. . .

WAVE 5, SWELL 3, WIND SW 6, EARD 1012. , AIR TEMP. DRY 7.0, WFT . , CLOUD. TYPE ST, AMT 10, WEATHER C ,

0	10.80	*****	6.33							0	10.09	*****	6.33	*****	***	***	.0000
10	10.94	*****	6.31							10	10.94	*****	6.31	*****	***	***	*****
20	10.90	*****	6.31							20	10.90	*****	6.31	*****	***	***	*****
30	10.84	*****	6.32							30	10.84	*****	6.32	*****	***	***	*****
50	7.91	*****	6.73							50	7.91	*****	6.73	*****	***	***	*****
75	4.64	*****	7.23							75	4.64	*****	7.23	*****	***	***	*****
100	2.24	*****	7.65							100	2.24	*****	7.65	*****	***	***	*****
125	1.20	*****	7.84							125	1.20	*****	7.84	*****	***	***	*****
150	.94	*****	7.92							150	.94	*****	7.92	*****	***	***	*****
200	.60	*****	7.97							200	.60	*****	7.97	*****	***	***	*****
245	.51	*****	7.95														

KOREA ,CHUN MA SAN , STATION 105-05 , 37-33.2. N, 120-22.6. E, APR.17.1980, 10.10 PST, DEPTH 380 , COLOR 4, TRANS. . .

WAVE 3, SWELL 2, WIND SE 4, EARD 1012.5, AIR TEMP. DRY 7.3, WEI . , CLOUD. TYPE ST, AMT 10, WEATHER C ,

0	11.98	*****	6.19							0	11.98	*****	6.19	*****	***	***	.0000
10	11.69	*****	6.23							10	11.69	*****	6.23	*****	***	***	*****
20	10.54	*****	6.35							20	10.54	*****	6.35	*****	***	***	*****
30	7.15	*****	6.83							30	7.15	*****	6.83	*****	***	***	*****
50	3.25	*****	7.47							50	3.25	*****	7.47	*****	***	***	*****
75	2.72	*****	7.57							75	2.72	*****	7.57	*****	***	***	*****
100	2.58	*****	7.59							100	2.58	*****	7.59	*****	***	***	*****
125	2.26	*****	7.66							125	2.26	*****	7.66	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D T	SVA	D-DY									

150	1.73	*****	7.76							150	1.73	*****	7.76	*****	***	***	*****
200	.60	*****	7.98							200	.60	*****	7.98	*****	***	***	*****
250	.47	*****	8.01							250	.47	*****	8.01	*****	***	***	*****
300	.48	*****	8.00							300	.48	*****	8.00	*****	***	***	*****
375	.21	*****	8.05														

KOREA ,CHUN MA SAN , STATION 105-05 , 37-33.2, N, 120-41.3. E, APR.17.1980, 13.20 PST, DEPTH P10 , COLOR 4, TRANS. 15.0,
WAVE 4, SWELL 2, WIND SE 5, BARO 1012.5, AIR TEMP. DRY 6.5, WET . , CLOUD. TYPE ST, AM Y, WEATHER C ,

0	9.86	*****	6.47							0	9.86	*****	6.47	*****	***	***	.0000
10	9.72	*****	6.47							10	9.72	*****	6.47	*****	***	***	*****
20	9.74	*****	6.48							20	9.74	*****	6.48	*****	***	***	*****
30	9.50	*****	6.48							30	9.59	*****	6.48	*****	***	***	*****
50	9.52	*****	6.50							50	9.52	*****	6.50	*****	***	***	*****
75	9.44	*****	6.51							75	9.44	*****	6.51	*****	***	***	*****
100	9.41	*****	6.52							100	9.41	*****	6.52	*****	***	***	*****
125	9.21	*****	6.54							125	9.21	*****	6.54	*****	***	***	*****
150	9.46	*****	6.51							150	9.46	*****	6.51	*****	***	***	*****
200	9.30	*****	6.65							200	9.30	*****	6.65	*****	***	***	*****
250	8.40	*****	6.63							250	8.49	*****	6.63	*****	***	***	*****
300	8.45	*****	6.64							300	8.45	*****	6.64	*****	***	***	*****
400	3.73	*****	7.40							400	3.73	*****	7.40	*****	***	***	*****
500	.79	*****	7.05							500	.79	*****	7.05	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, APR.17.1980, 16.20 PST, (11TH 1450 , 1450 , TRANS.																	
WAVE	5, SWELL	2, WIND SE	5, BARO 1011.5	AIR TEMP, DRY	6.2, WET												
0	9.93	*****	6.52							0	9.03	*****	6.52	*****	***	***	.0000
10	9.75	*****	6.46							10	9.75	*****	6.46	*****	***	***	*****
20	9.70	*****	6.48							20	9.70	*****	6.48	*****	***	***	*****
30	9.68	*****	6.48							30	9.68	*****	6.48	*****	***	***	*****
50	9.67	*****	6.49							50	9.67	*****	6.49	*****	***	***	*****
75	9.57	*****	6.49							75	9.57	*****	6.49	*****	***	***	*****
100	9.54	*****	6.50							100	9.54	*****	6.50	*****	***	***	*****
125	9.48	*****	6.50							125	9.48	*****	6.50	*****	***	***	*****
150	9.40	*****	6.52							150	9.40	*****	6.52	*****	***	***	*****
200	9.35	*****	6.53							200	9.35	*****	6.53	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, APR.11.1980, 05.30 KST, DEPTH 1503 , COLOR , WEATHER ,																	
WAVE	4, SWELL	2, WIND SE	6, BARO 1015.	AIR TEMP, DRY	5.5, WET												
0	9.74	*****	*****							0	9.74	*****	*****	*****	***	***	.0000
10	9.91	*****	*****							10	9.91	*****	*****	*****	***	***	*****
20	9.87	*****	*****							20	9.87	*****	*****	*****	***	***	*****
30	9.83	*****	*****							30	9.83	*****	*****	*****	***	***	*****
50	9.69	*****	*****							50	9.69	*****	*****	*****	***	***	*****
75	9.69	*****	*****							75	9.69	*****	*****	*****	***	***	*****
100	9.68	*****	*****							100	9.68	*****	*****	*****	***	***	*****
125	9.65	*****	*****							125	9.65	*****	*****	*****	***	***	*****
150	9.63	*****	*****							150	9.63	*****	*****	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

200	9.56	*****	*****							200	9.56	*****	*****	*****	***	***	*****
250	9.26	*****	*****							250	9.26	*****	*****	*****	***	***	*****
300	8.38	*****	*****							300	8.38	*****	*****	*****	***	***	*****
400	1.79	*****	*****							400	1.79	*****	*****	*****	***	***	*****
500	1.42	*****	*****							500	1.42	*****	*****	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, APR.11.1980, 02.30 KST, DEPTH 1140 , COLOR , TPANS. . .
 WAVE , SWELL 2, WIND SE 6, BARO 1016.5, AIR TEMP. DRY 6.5, WET . , CLOUD. TYPE , AMT 7, WEATHER PC,

0	9.68	*****	6.49							0	9.68	*****	6.49	*****	***	***	.0000
10	9.74	*****	6.47							10	9.74	*****	6.47	*****	***	***	*****
20	9.68	*****	6.48							20	9.68	*****	6.48	*****	***	***	*****
30	9.65	*****	6.48							30	9.65	*****	6.48	*****	***	***	*****
50	9.54	*****	6.49							50	9.54	*****	6.49	*****	***	***	*****
75	9.55	*****	6.50							75	9.55	*****	6.50	*****	***	***	*****
100	9.51	*****	6.50							100	9.51	*****	6.50	*****	***	***	*****
125	9.42	*****	6.52							125	9.42	*****	6.52	*****	***	***	*****
150	*****	*****	*****							150	*****	*****	*****	*****	***	***	*****
200	9.36	*****	6.53							200	9.36	*****	6.53	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, APR.10.1980, 23.40 KST, DEPTH 1800 , COLOR , TPANS. . .
 WAVE , SWELL 3, WIND SE 5, BARO 1019.5, AIR TEMP. DRY 7.5, WET . , CLOUD. TYPE , AMT , WEATHER EC,

0	9.23	*****	6.55							0	9.23	*****	6.55	*****	***	***	.0000
10	9.30	*****	6.46							10	9.30	*****	6.46	*****	***	***	*****
20	9.65	*****	6.48							20	9.65	*****	6.48	*****	***	***	*****

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

30	9.61	*****	6.49							30	9.61	*****	6.49	*****	***	***	*****
50	9.57	*****	6.49							50	9.57	*****	6.49	*****	***	***	*****
75	9.43	*****	6.52							75	9.43	*****	6.52	*****	***	***	*****
100	9.49	*****	6.50							100	9.49	*****	6.50	*****	***	***	*****
125	9.46	*****	6.52							125	9.46	*****	6.52	*****	***	***	*****
150	9.40	*****	6.52							150	9.40	*****	6.52	*****	***	***	*****
200	9.25	*****	6.53							200	9.25	*****	6.53	*****	***	***	*****
250	8.52	*****	6.62							250	8.52	*****	6.62	*****	***	***	*****
300	8.39	*****	6.66							300	8.39	*****	6.66	*****	***	***	*****
400	5.24	*****	7.13							400	5.24	*****	7.13	*****	***	***	*****
500	1.53	*****	7.77							500	1.53	*****	7.77	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, APR.10.1980, 20.20 KST, DEPTH 2375 , COLOR , TRANS. ,
WAVE 3, SWELL 2, WIND SE 5, CARGO 1020. , AIR TEMP. DRY 7.5, WFT . , CLOUD. TYPE , AMT 3, WEATHER FC,

0	9.64	*****	6.98							0	9.64	*****	6.98	*****	***	***	*****
10	9.70	*****	6.48							10	9.70	*****	6.48	*****	***	***	*****
20	9.60	*****	6.48							20	9.60	*****	6.48	*****	***	***	*****
30	9.48	*****	6.51							30	9.48	*****	6.51	*****	***	***	*****
50	9.55	*****	6.50							50	9.55	*****	6.50	*****	***	***	*****
75	9.65	*****	6.48							75	9.65	*****	6.48	*****	***	***	*****
100	9.62	*****	6.49							100	9.62	*****	6.49	*****	***	***	*****
125	9.61	*****	6.49							125	9.61	*****	6.49	*****	***	***	*****
150	9.45	*****	6.51							150	9.45	*****	6.51	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

200	9.22	*****	6.54							200	9.22	*****	6.54	*****	***	***	*****
250	8.78	*****	6.47							250	8.78	*****	6.47	*****	***	***	*****
300	8.60	*****	6.61							300	8.60	*****	6.61	*****	***	***	*****
400	2.79	*****	7.54							400	2.79	*****	7.54	*****	***	***	*****
500	.79	*****	7.93							500	.79	*****	7.93	*****	***	***	*****

6 월(June)

KOREA ,CHUN MA SAN , STATION 105-U3 , 37-33.2. N, 120-10.3. E, JUN.12.1980, 07.40 PST, DEPTH 48 , COLOR 4, TRANS. 15.5,
 WAVE , SWELL , WIND SW 1, EAO 1000. , AIR TEMP. DRY 20.5, WET . , CLOUD. TYPE CI, AMT 3, WEATHER EC,

0	15.09	*****	6.84							0	15.09	*****	6.84	*****	***	***	.0000
10	12.35	*****	6.94							10	12.35	*****	6.94	*****	***	***	*****
20	5.32	*****	6.75							20	5.32	*****	6.75	*****	***	***	*****
30	4.05	*****	5.80							30	4.05	*****	5.80	*****	***	***	*****
45	2.24	*****	5.70														

KOREA ,CHUN MA SAN , STATION 105-U4 , 37-33.2. N, 120-15.5. E, JUN.12.1980, 06.00 PST, DEPTH 250 , COLOR 3, TRANS. . ,
 WAVE 1, SWELL 1, WIND SW 1, EAO 1000. , AIR TEMP. DRY 19.5, WET . , CLOUD. TYPE CI, AMT 3, WEATHER EC,

0	16.06	*****	6.56							0	16.06	*****	6.56	*****	***	***	.0000
10	15.29	*****	6.65							10	15.29	*****	6.65	*****	***	***	*****
20	14.04	*****	5.99							20	14.04	*****	5.99	*****	***	***	*****
30	13.80	*****	5.89							30	13.80	*****	5.80	*****	***	***	*****
50	12.91	*****	6.18							50	12.91	*****	6.18	*****	***	***	*****
75	10.87	*****	5.70							75	10.87	*****	5.70	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	7.89	*****	5.80							100	7.89	*****	5.80	*****	***	***	*****
125	4.17	*****	6.18							125	4.17	*****	6.18	*****	***	***	*****
150	1.95	*****	5.70							150	1.95	*****	5.70	*****	***	***	*****
200	.81	*****	5.81							200	.81	*****	5.81	*****	***	***	*****
KOREA , CHUN MA SAN , STATION 105-U5 , 37-33.2. N, 120-22.6. E, JUN.12.1980, 04.00 KST, DEPTH 380 , COLOR , TRANS. . ,																	
WAVE , SWELL 1, WIND SW 2, BARO 999. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE , AMT , WEATHER FC,																	
0	16.11	*****	6.37							0	16.11	*****	6.37	*****	***	***	.0030
10	15.87	*****	6.18							10	15.87	*****	6.18	*****	***	***	*****
20	14.81	*****	5.89							20	14.81	*****	5.89	*****	***	***	*****
30	14.37	*****	4.85							30	14.37	*****	4.85	*****	***	***	*****
50	14.07	*****	5.04							50	14.07	*****	5.04	*****	***	***	*****
75	9.11	*****	5.61							75	9.11	*****	5.61	*****	***	***	*****
100	7.73	*****	5.51							100	7.73	*****	5.51	*****	***	***	*****
125	4.78	*****	5.23							125	4.78	*****	5.23	*****	***	***	*****
150	2.37	*****	5.80							150	2.37	*****	5.80	*****	***	***	*****
200	1.75	*****	*****							200	1.75	*****	*****	*****	***	***	*****
250	1.32	*****	5.23							250	1.32	*****	5.23	*****	***	***	*****
300	1.18	*****	6.08							300	1.18	*****	6.08	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-06 , 37-33.2. N, 120-41.3. E, JUN.12.1980, 01.00 VST, DEPTH 810 , COLOR , T-PANS. ,
 WAVE , SWELL 1, WIND SW 1, EARD 999. , AIR TEMP. DRY 18.0, WET , CLOUD. TYPE , AMT , WEATHER FC,
 0 17.14 ***** 6.56 0 17.14 ***** 6.56 ***** ** ** ** 0000
 10 17.00 ***** 6.37 10 17.00 ***** 6.37 ***** ** ** **
 20 16.09 ***** 6.46 20 16.09 ***** 6.46 ***** ** ** **
 30 14.57 ***** 5.61 30 14.57 ***** 5.61 ***** ** ** **
 50 13.15 ***** 5.70 50 13.15 ***** 5.70 ***** ** ** **
 75 12.42 ***** 5.51 75 12.42 ***** 5.51 ***** ** ** **
 100 11.10 ***** 5.80 100 11.19 ***** 5.80 ***** ** ** **
 125 10.73 ***** 5.99 125 10.73 ***** 5.99 ***** ** ** **
 150 9.43 ***** 5.80 150 9.43 ***** 5.80 ***** ** ** **
 200 9.21 ***** 6.84 200 9.21 ***** 6.84 ***** ** ** **
 250 7.36 ***** 5.89 250 7.36 ***** 5.89 ***** ** ** **
 300 4.24 ***** 5.69 300 4.24 ***** 5.69 ***** ** ** **
 400 .06 ***** 5.69 400 .06 ***** 5.69 ***** ** ** **
 500 .38 ***** 5.51 500 .38 ***** 5.51 ***** ** ** **

KOREA , CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, JUN.11.1980, 21.50 VST, DEPTH 1480 , COLOR , T-PANS. ,
 WAVE , SWELL 1, WIND SE 3, EARD 999. , AIR TEMP. DRY 18.5, WET , CLOUD. TYPE , AMT , WEATHER C ,
 0 17.62 ***** 5.42 0 17.62 ***** 5.42 ***** ** ** ** 0000
 10 16.53 ***** 5.51 10 16.53 ***** 5.51 ***** ** ** **
 20 15.50 ***** 5.61 20 15.50 ***** 5.61 ***** ** ** **
 30 14.00 ***** 5.70 30 14.00 ***** 5.70 ***** ** ** **

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	12.69	*****	5.61							50	12.49	*****	5.61	*****	***	***	*****
75	11.97	*****	5.70							75	11.07	*****	5.70	*****	***	***	*****
100	11.85	*****	5.37							100	11.85	*****	5.37	*****	***	***	*****
125	11.74	*****	5.61							125	11.74	*****	5.61	*****	***	***	*****
150	11.42	*****	5.80							150	11.48	*****	5.80	*****	***	***	*****
200	9.80	*****	5.70							200	9.80	*****	5.70	*****	***	***	*****
250	9.65	*****	5.51							250	9.65	*****	5.51	*****	***	***	*****
300	9.34	*****	5.42							300	9.34	*****	5.42	*****	***	***	*****
400	3.74	*****	5.89							400	3.74	*****	5.89	*****	***	***	*****
500	1.45	*****	5.70							500	1.45	*****	5.70	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, JUN-11-1980, 18.40 KST, DEPTH 1503 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SE 2, BARO 99%, AIR TEMP. DRY 10.5, WET 0 17.58 , CLOUD. TYPE CI, AMT 9, WEATHER C ,
 0 17.58 ***** 6.18 ***** *** *** ,0000
 10 15.43 ***** 6.08 ***** *** ***
 20 15.18 ***** 6.18 ***** *** ***
 30 14.41 ***** 5.70 ***** *** ***
 50 13.08 ***** 5.32 ***** *** ***
 75 11.16 ***** 5.70 ***** *** ***
 100 10.03 ***** 6.08 ***** *** ***
 125 9.70 ***** 5.89 ***** *** ***
 150 9.13 ***** 5.98 ***** *** ***
 200 7.17 ***** 6.65 ***** *** ***
 250 5.87 ***** 6.46 ***** *** ***
 300 3.11 ***** 5.61 ***** *** ***

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	M02-N	M03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D-DY
KOREA , CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, JUN.11.1980, 15.30 VST, DEPTH 1140 , COLOR 3, TRANS. 19.0.																	
WAVE 2, SWELL 1, WIND SW 2, EARP 900. , AIR TEMP. DRY 23.5, WET . , CLOUD. TYPE CL, AMT 9, WEATHER C ,																	
0	17.61	*****	6.46							0	17.61	*****	6.46	*****	***	***	.0000
10	16.00	*****	6.08							10	16.00	*****	6.08	*****	***	***	*****
20	14.66	*****	5.89							20	14.66	*****	5.89	*****	***	***	*****
30	13.84	*****	6.08							30	13.84	*****	6.08	*****	***	***	*****
50	11.52	*****	5.61							50	11.52	*****	5.61	*****	***	***	*****
75	9.93	*****	6.08							75	9.93	*****	6.08	*****	***	***	*****
100	9.38	*****	6.75							100	9.38	*****	6.75	*****	***	***	*****
125	9.08	*****	5.89							125	9.08	*****	5.89	*****	***	***	*****
150	8.75	*****	5.80							150	8.75	*****	5.80	*****	***	***	*****
200	7.85	*****	5.99							200	7.85	*****	5.99	*****	***	***	*****
250	5.74	*****	6.27							250	5.74	*****	6.27	*****	***	***	*****
300	2.06	*****	5.51							300	2.06	*****	5.51	*****	***	***	*****
400	1.02	*****	5.70							400	1.02	*****	5.70	*****	***	***	*****
500	.51	*****	6.27							500	.51	*****	6.27	*****	***	***	*****
KOREA , CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, JUN.11.1980, 12.00 VST, DEPTH 1000 , COLOR 3, TRANS. 19.5,																	
WAVE 1, SWELL 1, WIND SE 2, EARP 1000.5, AIR TEMP. DRY 24.0, WET . , CLOUD. TYPE CI, AMT 5, WEATHER FC,																	
0	17.27	*****	6.51							0	17.27	*****	6.51	*****	***	***	.0000
10	18.92	*****	6.18							10	18.92	*****	6.18	*****	***	***	*****
20	15.61	*****	5.89							20	15.61	*****	5.89	*****	***	***	*****
30	14.89	*****	5.51							30	14.89	*****	5.51	*****	***	***	*****
50	13.80	*****	5.99							50	13.80	*****	5.99	*****	***	***	*****
75	10.05	*****	6.27							75	10.05	*****	6.27	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

100	9.78	*****	6.08							100	9.78	*****	6.08	*****	***	***	*****
125	8.92	*****	5.79							125	8.92	*****	5.79	*****	***	***	*****
150	8.28	*****	6.56							150	8.28	*****	6.56	*****	***	***	*****
200	*****	*****	6.75							200	*****	*****	6.75	*****	***	***	*****
250	4.96	*****	5.51							250	4.96	*****	5.51	*****	***	***	*****
300	3.12	*****	5.70							300	3.12	*****	5.70	*****	***	***	*****
400	.72	*****	5.80							400	.72	*****	5.80	*****	***	***	*****
500	.59	*****	6.41							500	.59	*****	6.41	*****	***	***	*****

KOREA ,CHUN NA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, JUN.11.1980, 08.40 PST, DEPTH 2375 , COLOR 3, TRAYS. 19.0.

WAVE	1. SWELL	1. WIND SE	1. WIND 1001.5. AIR TEMP. 20.1, WET														
0	16.63	*****	7.12							0	16.63	*****	7.12	*****	***	***	.0000
10	15.72	*****	5.46							10	15.72	*****	5.46	*****	***	***	*****
20	15.48	*****	5.97							20	15.48	*****	5.97	*****	***	***	*****
30	14.39	*****	6.16							30	14.39	*****	6.16	*****	***	***	*****
50	13.38	*****	6.25							50	13.38	*****	6.25	*****	***	***	*****
75	12.45	*****	6.16							75	12.45	*****	6.16	*****	***	***	*****
100	11.13	*****	5.70							100	11.13	*****	5.70	*****	***	***	*****
125	10.62	*****	5.89							125	10.62	*****	5.89	*****	***	***	*****
150	10.10	*****	6.56							150	10.10	*****	6.56	*****	***	***	*****
200	8.64	*****	*****							200	8.64	*****	*****	*****	***	***	*****
250	5.48	*****	7.03							250	5.48	*****	7.03	*****	***	***	*****
300	2.63	*****	5.42							300	2.63	*****	5.42	*****	***	***	*****
400	.76	*****	5.51							400	.76	*****	5.51	*****	***	***	*****
500	.45	*****	5.81							500	.45	*****	5.81	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA

8월(August)

KOREA , CHUN MA SAN , STATION 105-03 , 37-33.2. N, 120-10.3. E, AUG.13.1980, 05.00 VST, DEPTH 40 , COLOR , TRANS. . .
 WAVE 3, SWELL 1, WIND SE 3, FARN 1003. , AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE CU, AMT 10, WEATHER F ,
 U 20.0, V 5.56
 10 20.81 ***** 6.34
 20 20.19 ***** 4.97
 30 13.61 ***** 5.07
 45 8.01 ***** 5.36

KOREA , CHUN MA SAN , STATION 105-04 , 37-33.2. N, 120-15.5. E, AUG.13.1980, 03.20 VST, DEPTH 250 , COLOR , TRANS. . .
 WAVE 3, SWELL 1, WIND SE 3, FARN 1003.5, AIR TEMP. DRY 20.3, WET . , CLOUD. TYPE CU, AMT 10, WEATHER F ,
 U 21.6, V 5.17
 10 21.04 ***** 4.97
 20 20.49 ***** 5.46
 30 16.03 ***** 5.36
 50 12.34 ***** 5.17
 75 7.82 ***** 5.26
 100 4.00 ***** 4.78
 125 2.82 ***** 5.07
 150 2.72 ***** 5.85
 200 1.35 ***** 4.75
 245 1.03 ***** 5.07

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , CHUN MA SAN , STATION 105-05 , 37-33.2. N, 120-72.6. E, AUG.13.1980, 00.10 VST, DEPTH 380 , COLOR , TRANS. . ,																	
WAVE 7, SWELL 1, WIND SE 2, EARO 1006.5 , AIR TEMP. DRY 22.0, WET : , CLOUD. TYPE : , AMT 10, WEATHER F ,																	
0	21.32	*****	5.56							0	21.32	*****	5.56	*****	***	***	.0000
10	20.92	*****	5.07							10	20.92	*****	5.07	*****	***	***	*****
20	20.81	*****	5.26							20	20.81	*****	5.26	*****	***	***	*****
30	19.03	*****	5.17							30	19.03	*****	5.17	*****	***	***	*****
50	8.06	*****	6.14							50	8.06	*****	6.14	*****	***	***	*****
75	6.38	*****	6.04							75	6.36	*****	6.04	*****	***	***	*****
100	3.83	*****	5.36							100	3.83	*****	5.36	*****	***	***	*****
125	2.84	*****	5.56							125	2.84	*****	5.56	*****	***	***	*****
150	1.85	*****	5.26							150	1.85	*****	5.26	*****	***	***	*****
200	1.30	*****	5.17							200	1.30	*****	5.17	*****	***	***	*****
250	.99	*****	4.88							250	.99	*****	4.88	*****	***	***	*****
300	.72	*****	5.75							300	.72	*****	5.75	*****	***	***	*****
375	.62	*****	5.26														

KOREA , CHUN MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, AUG.12.1980, 21.00 VST, DEPTH 910 , COLOR , TRANS. . .																	
WAVE		, SWELL		1, WIND E		1, EARO 1006.5		AIR TEMP. DRY		23.0, WET		CLOUD. TYPE		, AMT 10, WEATHER C			
0	21.75	*****	4.87					0	21.75	*****	4.87	*****	***	***	.0000		
10	21.06	*****	4.87					10	21.06	*****	4.87	*****	***	***	*****		
20	20.65	*****	5.26					20	20.65	*****	5.26	*****	***	***	*****		
30	13.45	*****	4.78					30	13.45	*****	4.78	*****	***	***	*****		
50	9.58	*****	4.88					50	9.58	*****	4.88	*****	***	***	*****		
75	6.16	*****	5.75					75	6.16	*****	5.75	*****	***	***	*****		

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	4.07	*****	5.46							100	4.07	*****	5.46	*****	***	***	*****
125	3.87	*****	5.46							125	3.87	*****	5.26	*****	***	***	*****
150	2.50	*****	5.46							150	2.50	*****	5.46	*****	***	***	*****
200	1.13	*****	5.95							200	1.13	*****	5.95	*****	***	***	*****
250	.45	*****	5.46							250	.45	*****	5.46	*****	***	***	*****
300	.52	*****	5.56							300	.52	*****	5.56	*****	***	***	*****
400	.33	*****	5.26							400	.33	*****	5.26	*****	***	***	*****
500	.23	*****	5.36							500	.23	*****	5.36	*****	***	***	*****
KOREA, CHUN MA SAN, STATION: 105-07, 37-33.2 N, 130-00.0 E, AUG. 12, 1980, 17.00 KST, DEPTH 1480, COLOR 3, TRANS. 20.5,																	
WAVE	1, SWELL	1, WIND E	1, BARO 1006.5, AIR TEMP. DRY	23.0, WET	0	21.82	*****	4.97	*****	***	***	***	***	***	***	***	.0030
10	20.73	*****	4.78							10	20.73	*****	4.78	*****	***	***	*****
20	19.95	*****	5.46							20	19.95	*****	5.46	*****	***	***	*****
30	18.47	*****	5.46							30	18.47	*****	5.46	*****	***	***	*****
50	15.62	*****	4.97							50	15.62	*****	4.97	*****	***	***	*****
75	14.89	*****	4.58							75	14.89	*****	4.58	*****	***	***	*****
100	12.94	*****	4.97							100	12.94	*****	4.97	*****	***	***	*****
125	7.53	*****	5.46							125	7.53	*****	5.46	*****	***	***	*****
150	4.73	*****	4.97							150	4.73	*****	4.97	*****	***	***	*****
200	1.53	*****	5.36							200	1.53	*****	5.36	*****	***	***	*****
250	1.13	*****	5.46							250	1.13	*****	5.46	*****	***	***	*****
300	.62	*****	5.75							300	.62	*****	5.75	*****	***	***	*****
400	.44	*****	4.86							400	.44	*****	4.86	*****	***	***	*****
500	.39	*****	5.17							500	.39	*****	5.17	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUM MA SAN , STATION 105-03 , 37-33.2. N, 130-16.7. E, AUG.12.1980, 13.50 PST, DEPTH 1507 , COLOR 3, TRANS. 23.0.

WAVE 1, SWELL 1, WIND NE 1, EARD 1006.5, AIR TEMP. DRY 26.0, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,

0	21.90	*****	5.26							0	21.90	*****	5.26	*****	***	***	.0000
10	21.88	*****	5.17							10	21.86	*****	5.17	*****	***	***	*****
20	20.89	*****	5.75							20	20.89	*****	5.75	*****	***	***	*****
30	17.08	*****	5.07							30	17.08	*****	5.07	*****	***	***	*****
50	16.78	*****	5.07							50	16.76	*****	5.07	*****	***	***	*****
75	14.11	*****	4.78							75	14.11	*****	4.78	*****	***	***	*****
100	10.96	*****	5.46							100	10.96	*****	5.46	*****	***	***	*****
125	10.53	*****	6.65							125	10.53	*****	6.65	*****	***	***	*****
150	9.44	*****	5.85							150	9.44	*****	5.85	*****	***	***	*****
200	5.50	*****	5.65							200	5.50	*****	5.65	*****	***	***	*****
250	2.25	*****	5.56							250	2.25	*****	5.56	*****	***	***	*****
300	1.28	*****	5.46							300	1.28	*****	5.46	*****	***	***	*****
400	.70	*****	5.56							400	.70	*****	5.56	*****	***	***	*****
500	.61	*****	5.46							500	.61	*****	5.46	*****	***	***	*****

KOREA ,CHUM MA SAN , STATION 105-03 , 37-33.2. N, 130-17.5. E, AUG.12.1980, 10.40 PST, DEPTH 1140 , COLOR 3, TRANS. 22.0.

WAVE 1, SWELL 1, WIND NE 1, EARD 1008. , AIR TEMP. DRY 25.6, WET . , CLOUD. TYPE CI, AMT 8, WEATHER C ,

0	21.59	*****	5.07							0	21.59	*****	5.07	*****	***	***	.0000
10	21.19	*****	5.07							10	21.19	*****	5.07	*****	***	***	*****
20	17.72	*****	6.04							20	17.72	*****	6.04	*****	***	***	*****
30	15.15	*****	5.26							30	15.05	*****	5.26	*****	***	***	*****
50	13.98	*****	4.19							50	13.98	*****	4.19	*****	***	***	*****
75	12.40	*****	5.07							75	12.40	*****	5.07	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100	10.51	*****	5.46							100	10.51	*****	5.46	*****	***	***	*****
125	10.05	*****	5.05							125	10.05	*****	5.65	*****	***	***	*****
150	9.40	*****	5.65							150	9.40	*****	5.85	*****	***	***	*****
200	5.07	*****	5.56							200	5.07	*****	5.56	*****	***	***	*****
250	1.38	*****	6.04							250	1.38	*****	6.04	*****	***	***	*****
300	1.01	*****	5.26							300	1.01	*****	5.26	*****	***	***	*****
400	.55	*****	5.36							400	.55	*****	5.36	*****	***	***	*****
500	.56	*****	5.07							500	.56	*****	5.07	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, AUG.12.1980, 07.50 PST, DEPTH 1000 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND NE 2, BARO 1008. , AIR TEMP. DRY 23.5, WET 21.70 , CLOUD. TYPE ST, AMT 10, WEATHER C ,
 0 21.70 ***** 5.07 ***** 5.07 ***** 5.07 ***** 5.07 ***** 5.07 ***** 5.07 *****
 10 20.81 ***** 5.59 ***** 5.59 ***** 5.59 ***** 5.59 ***** 5.59 ***** 5.59 *****
 20 17.76 ***** 6.14 ***** 6.14 ***** 6.14 ***** 6.14 ***** 6.14 ***** 6.14 *****
 30 17.42 ***** 5.46 ***** 5.46 ***** 5.46 ***** 5.46 ***** 5.46 ***** 5.46 *****
 50 14.74 ***** 4.78 ***** 4.78 ***** 4.78 ***** 4.78 ***** 4.78 ***** 4.78 *****
 75 12.82 ***** 5.36 ***** 5.36 ***** 5.36 ***** 5.36 ***** 5.36 ***** 5.36 *****
 100 10.59 ***** 6.14 ***** 6.14 ***** 6.14 ***** 6.14 ***** 6.14 ***** 6.14 *****
 125 10.24 ***** 5.56 ***** 5.56 ***** 5.56 ***** 5.56 ***** 5.56 ***** 5.56 *****
 150 9.89 ***** 5.95 ***** 5.95 ***** 5.95 ***** 5.95 ***** 5.95 ***** 5.95 *****
 200 9.05 ***** 5.56 ***** 5.56 ***** 5.56 ***** 5.56 ***** 5.56 ***** 5.56 *****
 250 6.16 ***** 6.34 ***** 6.34 ***** 6.34 ***** 6.34 ***** 6.34 ***** 6.34 *****
 300 3.20 ***** 5.65 ***** 5.65 ***** 5.65 ***** 5.65 ***** 5.65 ***** 5.65 *****
 400 .77 ***** 5.65 ***** 5.65 ***** 5.65 ***** 5.65 ***** 5.65 ***** 5.65 *****
 500 .65 ***** 6.04 ***** 6.04 ***** 6.04 ***** 6.04 ***** 6.04 ***** 6.04 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-16.6. E, AUG.12.1980, 03.10 VST, DEPTH 2775 , COLOR , TRANS. . ,																	
WAVE 7, SWELL 1, WIND NE 2, EARG 1007. , AIR TEMP. DRY 23.0, WET . , CLOUD. TYPE ST, AMT 9, WEATHER C ,																	
0	22.02	*****	4.58							0	22.02	*****	4.58	*****	***	***	.0000
10	21.60	*****	5.56							10	21.60	*****	5.56	*****	***	***	*****
20	16.15	*****	6.53							20	16.15	*****	6.53	*****	***	***	*****
30	14.76	*****	4.28							30	14.76	*****	4.28	*****	***	***	*****
50	11.36	*****	6.34							50	11.36	*****	6.34	*****	***	***	*****
75	10.33	*****	5.26							75	10.33	*****	5.26	*****	***	***	*****
100	9.96	*****	6.14							100	9.96	*****	6.14	*****	***	***	*****
125	9.86	*****	5.46							125	9.86	*****	5.46	*****	***	***	*****
150	9.53	*****	5.65							150	9.53	*****	5.65	*****	***	***	*****
200	9.25	*****	5.75							200	9.25	*****	5.75	*****	***	***	*****
250	7.77	*****	5.36							250	7.77	*****	5.36	*****	***	***	*****
300	4.50	*****	5.26							300	4.50	*****	5.26	*****	***	***	*****
400	1.23	*****	5.56							400	1.23	*****	5.56	*****	***	***	*****
500	.85	*****	5.46							500	.85	*****	5.46	*****	***	***	*****
0월(October)																	
KOREA ,CHUN MA SAN , STATION 105-03 , 37-33.2. N, 120-10.3. E, OCT.20.1980, 12.10 KST, DEPTH 48 , COLOR 4, TRANS. 13.0,																	
WAVE 5, SWELL 2, WIND NE 5, EARG 1016.5, AIR TEMP. DRY 12.5, WET . , CLOUD. TYPE , AMT , WEATHER F ,																	
0	18.14	*****	4.86							0	18.14	*****	4.86	*****	***	***	.0000
10	13.38	*****	5.15							10	13.38	*****	5.15	*****	***	***	*****
20	18.34	*****	5.05							20	18.34	*****	5.05	*****	***	***	*****
30	15.77	*****	5.05							30	15.77	*****	5.05	*****	***	***	*****
45	13.59	*****	4.86							45	13.59	*****	4.86	*****	***	***	*****

10월(October)

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
125	3.29	*****	4.08							125	3.29	*****	4.08	*****	***	***	*****
150	2.07	*****	5.15							150	2.07	*****	5.15	*****	***	***	*****
200	1.39	*****	5.34							200	1.39	*****	5.34	*****	***	***	*****
250	.50	*****	5.73							250	.50	*****	5.73	*****	***	***	*****
300	.54	*****	5.54							300	.54	*****	5.54	*****	***	***	*****
375	.36	*****	4.76														
KOREA , CHUN MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, OCT.29.1980, 17.15 PST, DEPTH 810 , COLOR , TRANS. ,																	
WAVE 5, SWELL 2, WIND NE 4, BARO 1015.5, AIR TEMP. DRY 12.0, WET , CLOUD. TYPE , AMT , WEATHER F ,																	
0	19.18	*****	5.25							0	19.18	*****	5.25	*****	***	***	.0000
10	19.22	*****	5.15							10	19.22	*****	5.15	*****	***	***	*****
20	19.21	*****	5.34							20	19.21	*****	5.34	*****	***	***	*****
30	19.18	*****	4.67							30	19.18	*****	4.67	*****	***	***	*****
50	16.66	*****	4.18							50	16.66	*****	4.18	*****	***	***	*****
75	14.46	*****	5.15							75	14.46	*****	5.15	*****	***	***	*****
100	11.04	*****	4.18							100	11.04	*****	4.18	*****	***	***	*****
125	7.29	*****	5.44							125	7.29	*****	5.44	*****	***	***	*****
150	6.30	*****	5.05							150	6.30	*****	5.05	*****	***	***	*****
200	2.50	*****	5.54							200	2.50	*****	5.54	*****	***	***	*****
250	1.03	*****	5.34							250	1.03	*****	5.34	*****	***	***	*****
300	.73	*****	5.54							300	.73	*****	5.54	*****	***	***	*****
400	.70	*****	5.15							400	.70	*****	5.15	*****	***	***	*****
500	.35	*****	4.86							500	.35	*****	4.86	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, OCT. 17, 1980, 16.30 KST, DEPTH 1480 , COLOR , TRANS. ,

WAVE 3, SWELL 1, WIND SE 3, EARD 1011.5, AIR TEMP. DRY 17.0, WET 1, CLOUD. TYPE CU, AMT 4, WEATHER FC,																	
0	19.95	*****	5.05							0	19.95	*****	5.05	*****	***	***	.0000
10	19.72	*****	5.15							10	19.72	*****	5.15	*****	***	***	*****
20	19.57	*****	4.96							20	19.57	*****	4.96	*****	***	***	*****
30	18.95	*****	4.96							30	18.95	*****	4.96	*****	***	***	*****
50	18.43	*****	4.86							50	18.43	*****	4.86	*****	***	***	*****
75	14.09	*****	4.66							75	14.09	*****	4.66	*****	***	***	*****
100	10.94	*****	4.76							100	10.94	*****	4.76	*****	***	***	*****
125	10.58	*****	5.34							125	10.58	*****	5.34	*****	***	***	*****
150	9.22	*****	5.64							150	9.22	*****	5.64	*****	***	***	*****
200	5.47	*****	5.45							200	5.47	*****	5.45	*****	***	***	*****
250	2.57	*****	4.86							250	2.57	*****	4.86	*****	***	***	*****
300	1.71	*****	4.96							300	1.71	*****	4.96	*****	***	***	*****
400	.81	*****	5.73							400	.81	*****	5.73	*****	***	***	*****
500	.68	*****	6.22							500	.68	*****	6.22	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, OCT. 17, 1980, 15.20 KST, DEPTH 1503 , COLOR 3, TRANS. 22.0,

WAVE 2, SWELL 1, WIND SW 2, EARD 1011.5, AIR TEMP. DRY 17.5, WET 1, CLOUD. TYPE CU, AMT 3, WEATHER FC,																	
0	20.21	*****	5.25							0	20.21	*****	5.25	*****	***	***	.0000
10	19.80	*****	5.15							10	19.80	*****	5.15	*****	***	***	*****
20	19.10	*****	5.05							20	19.19	*****	5.05	*****	***	***	*****
30	18.97	*****	5.25							30	18.07	*****	5.25	*****	***	***	*****
50	18.67	*****	4.96							50	18.67	*****	4.96	*****	***	***	*****
75	16.24	*****	4.86							75	16.24	*****	4.86	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100	13.43	*****	5.65							100	13.43	*****	5.05	*****	***	***	*****
125	8.86	*****	5.15							125	8.86	*****	5.15	*****	***	***	*****
150	5.37	*****	5.05							150	5.37	*****	5.05	*****	***	***	*****
200	3.25	*****	4.96							200	3.25	*****	4.96	*****	***	***	*****
250	1.39	*****	4.86							250	1.39	*****	4.86	*****	***	***	*****
300	.77	*****	4.76							300	.77	*****	4.76	*****	***	***	*****
400	.64	*****	4.86							400	.64	*****	4.86	*****	***	***	*****
500	.52	*****	4.96							500	.52	*****	4.96	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, OCT-17, 1980, 12.40 PST, DEPTH 1140 , COLOR 3, TPANS. 21.0.

WAVE	0	19.43	*****	5.35						0	19.43	*****	5.35	*****	***	***	.0000
	10	19.04	*****	5.05						10	19.04	*****	5.05	*****	***	***	*****
	20	19.01	*****	5.15						20	19.01	*****	5.15	*****	***	***	*****
	30	18.93	*****	4.86						30	18.93	*****	4.86	*****	***	***	*****
	50	18.12	*****	4.86						50	18.12	*****	4.86	*****	***	***	*****
	75	12.79	*****	4.96						75	12.79	*****	4.96	*****	***	***	*****
	100	9.04	*****	4.76						100	9.04	*****	4.76	*****	***	***	*****
	125	6.59	*****	4.66						125	6.59	*****	4.66	*****	***	***	*****
	150	4.38	*****	4.86						150	4.38	*****	4.86	*****	***	***	*****
	200	3.70	*****	4.86						200	3.70	*****	4.86	*****	***	***	*****
	250	1.67	*****	4.96						250	1.67	*****	4.96	*****	***	***	*****
	300	.70	*****	4.76						300	.70	*****	4.76	*****	***	***	*****
	400	.34	*****	4.57						400	.34	*****	4.57	*****	***	***	*****
	500	.28	*****	4.66						500	.28	*****	4.66	*****	***	***	*****

OBSERVED																	
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	INTERPOLATED			CALCULATED				
										DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, OCT.17.1980, 08.40 PST, DEPTH 1900 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SW 4, BARO 1013. , AIR TEMP. DRY 16.5, WET 0 19.41 ***** 5.18 ***** 5.18 ***** *** .0000

0 19.41 ***** 5.18

10 19.39 ***** 4.89

20 19.24 ***** 4.89

30 18.67 ***** 5.09

50 16.18 ***** 5.48

75 13.21 ***** 5.29

100 9.34 ***** 4.89

125 7.06 ***** 4.79

150 4.64 ***** 4.89

200 2.54 ***** 5.09

250 1.89 ***** 5.18

300 1.36 ***** 4.89

400 .42 ***** 4.79

500 .35 ***** 4.79

KOREA , CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, OCT.17.1980, 05.30 PST, DEPTH 2375 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SE 2, BARO 1011.5, AIR TEMP. DRY 16.5, WET 0 19.37 ***** 5.96 ***** 5.96 ***** *** .0000

0 19.37 ***** 5.96

10 19.43 ***** 5.28

20 19.22 ***** 4.89

30 18.45 ***** 5.37

50 14.33 ***** 5.28

75 10.19 ***** 4.87

OBSERVED																	INTERPOLATED						CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

100	8.41	*****	4.40							100	8.41	*****	4.40	*****	***	***	*****
125	6.62	*****	4.40							125	6.62	*****	4.40	*****	***	***	*****
150	3.61	*****	4.99							150	3.61	*****	4.99	*****	***	***	*****
200	1.92	*****	4.70							200	1.92	*****	4.70	*****	***	***	*****
250	1.14	*****	4.79							250	1.14	*****	4.79	*****	***	***	*****
300	.37	*****	4.89							300	.37	*****	4.89	*****	***	***	*****
400	.76	*****	4.60							400	.76	*****	4.60	*****	***	***	*****
500	.56	*****	4.70							500	.56	*****	4.70	*****	***	***	*****

12월 (December)

KOREA ,CHUN MA SAN , STATION 105-03 , 37-33.2. N, 120-10.3. E, DEC.18.1980, 07.20 KST, DEPTH 48 , COLOR , TRANS. , ,

WAVE 2, SWELL 1, WIND W 2, BARO 1011. , AIR TEMP. DRY 3.5, WET . , CLOUD. TYPE , AMT 5, WEATHER EC, .

0	12.03	*****	5.34							0	12.03	*****	5.34	*****	***	***	.0000
10	12.22	*****	5.24							10	12.22	*****	5.24	*****	***	***	*****
20	12.06	*****	5.15							20	12.06	*****	5.15	*****	***	***	*****
30	11.89	*****	5.15							30	11.89	*****	5.15	*****	***	***	*****
45	10.22	*****	4.86														

KOREA ,CHUN MA SAN , STATION 105-04 , 37-33.2. N, 120-15.5. E, DEC.18.1980, 05.40 KST, DEPTH 250 , COLOR , TRANS. , ,

WAVE 2, SWELL 1, WIND W 2, BARO 1011. , AIR TEMP. DRY 5.5, WET . , CLOUD. TYPE C1, AMT 5, WEATHER EC, .

0	12.18	*****	5.43							0	12.18	*****	5.43	*****	***	***	.0000
10	12.65	*****	5.34							10	12.65	*****	5.34	*****	***	***	*****
20	12.75	*****	5.62							20	12.75	*****	5.62	*****	***	***	*****
30	12.22	*****	5.15							30	12.22	*****	5.15	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	O-T	SVA	D-DY

50	12.07	*****	5.05							50	12.07	*****	5.05	*****	***	***	*****
75	11.93	*****	4.96							75	11.93	*****	4.96	*****	***	***	*****
100	8.71	*****	5.05							100	8.71	*****	5.05	*****	***	***	*****
125	5.36	*****	5.05							125	5.36	*****	5.05	*****	***	***	*****
150	2.45	*****	4.86							150	2.45	*****	4.86	*****	***	***	*****
200	1.12	*****	4.77							200	1.12	*****	4.77	*****	***	***	*****
245	.75	*****	4.86														

KOREA, CHUN MA SAN, STATION 105-US, 37-33.2. N, 129-22.6. E, DEC. 18, 1960, 04.00 PST, DEPTH 330, COLOR, TRANS. . .

WAVE ? , SWELL 1, WIND 1, CLOUD TYPE, AMT 3, WEATHER EC,

0	12.66	*****	5.43							0	12.66	*****	5.43	*****	***	***	-0.000
10	13.38	*****	5.34							10	13.38	*****	5.34	*****	***	***	*****
20	13.42	*****	5.24							20	13.42	*****	5.24	*****	***	***	*****
30	13.44	*****	5.24							30	13.44	*****	5.24	*****	***	***	*****
50	12.23	*****	5.15							50	12.23	*****	5.15	*****	***	***	*****
75	11.98	*****	5.34							75	11.98	*****	5.34	*****	***	***	*****
100	10.88	*****	5.05							100	10.88	*****	5.05	*****	***	***	*****
125	9.23	*****	5.05							125	9.23	*****	5.05	*****	***	***	*****
150	6.73	*****	4.96							150	6.73	*****	4.96	*****	***	***	*****
200	1.00	*****	5.05							200	1.00	*****	5.05	*****	***	***	*****
250	.02	*****	4.86							250	.62	*****	4.86	*****	***	***	*****
300	.57	*****	4.77							300	.52	*****	4.77	*****	***	***	*****
375	.48	*****	4.39														

OBSERVED																		INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

KOREA ,CHUN MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, DEC.18.1980, 01.10 KST, DEPTH 810 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SW 2, EARD 1013. , AIR TEMP. DRY 8.6, WET 0 12.62 ***** 5.43 0 12.62 ***** 5.43 ***** *** .0000

10 13.13 ***** 5.34 10 13.13 ***** 5.34 ***** *** *****

20 12.86 ***** 5.34 20 12.86 ***** 5.34 ***** *** *****

30 11.61 ***** 5.15 30 11.61 ***** 5.15 ***** *** *****

50 10.26 ***** 5.24 50 10.26 ***** 5.24 ***** *** *****

75 6.87 ***** 5.15 75 6.87 ***** 5.15 ***** *** *****

100 5.05 ***** 5.34 100 5.05 ***** 5.34 ***** *** *****

125 4.55 ***** 5.05 125 4.55 ***** 5.05 ***** *** *****

150 2.51 ***** 5.15 150 2.51 ***** 5.15 ***** *** *****

200 1.41 ***** 4.96 200 1.41 ***** 4.96 ***** *** *****

250 .70 ***** 5.05 250 .70 ***** 5.05 ***** *** *****

300 .44 ***** 5.34 300 .44 ***** 5.34 ***** *** *****

400 .40 ***** 4.96 400 .40 ***** 4.96 ***** *** *****

500 .44 ***** 4.67 500 .44 ***** 4.67 ***** *** *****

KOREA ,CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, DEC.17.1980, 22.10 KST, DEPTH 1480 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SW 2, EARD 1013.5, AIR TEMP. DRY 9.3, WET 0 14.30 ***** 5.15 0 14.39 ***** 5.15 ***** *** .0000

10 14.58 ***** 5.24 10 14.56 ***** 5.24 ***** *** *****

20 14.10 ***** 4.96 20 14.19 ***** 4.96 ***** *** *****

30 13.80 ***** 5.15 30 13.89 ***** 5.15 ***** *** *****

50 12.37 ***** 5.72 50 12.97 ***** 5.72 ***** *** *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
75	12.64	*****	5.34							75	12.64	*****	5.34	*****	***	***	*****
100	11.59	*****	5.24							100	11.59	*****	5.24	*****	***	***	*****
125	5.60	*****	5.72							125	5.60	*****	5.72	*****	***	***	*****
150	4.29	*****	5.62							150	4.29	*****	5.62	*****	***	***	*****
200	3.71	*****	4.58							200	3.71	*****	4.58	*****	***	***	*****
250	.81	*****	4.96							250	.81	*****	4.96	*****	***	***	*****
300	.39	*****	5.05							300	.39	*****	5.05	*****	***	***	*****
400	.41	*****	4.48							400	.41	*****	4.48	*****	***	***	*****
500	.30	*****	4.86							500	.30	*****	4.86	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, DEC.17.1980, 17.10 KST, DEPTH 1503 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SW 1, WIND SW 2, EARO 1013.5, AIR TEMP. DRY 10.9, WET 0 13.99 , CLOUD. TYPE , AMT , WEATHEP PC,
 0 13.99 ***** 5.43 ***** 5.43 ***** *** .0000
 10 14.31 ***** 5.34 ***** 5.34 ***** ***
 20 14.59 ***** 5.43 ***** 5.43 ***** ***
 30 14.56 ***** 5.53 ***** 5.53 ***** ***
 50 13.77 ***** 5.34 ***** 5.34 ***** ***
 75 12.32 ***** 5.15 ***** 5.15 ***** ***
 100 11.34 ***** 5.24 ***** 5.24 ***** ***
 125 10.29 ***** 5.34 ***** 5.34 ***** ***
 150 5.98 ***** 5.05 ***** 5.05 ***** ***
 200 3.14 ***** 5.24 ***** 5.24 ***** ***
 250 2.18 ***** 5.15 ***** 5.15 ***** ***
 300 2.11 ***** 4.67 ***** 4.67 ***** ***
 400 .60 ***** 5.05 ***** 5.05 ***** ***
 500 .35 ***** 5.15 ***** 5.15 ***** ***

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 105-00 , 37-33.2. N, 130-37.5. E, DEC.17.1980, 15.10 VST, DEPTH 1140 , COLOR 4, TRANS. 17.5,

WAVE 2, SWELL 1, WIND SW 2, BARO 1015. , AIR TEMP. DRY 11.5, WET , CLOUD. TYPE , AMT , WEATHER E ,

0	14.47	*****	5.53							0	14.47	*****	5.53	*****	***	***	0000
10	14.56	*****	5.34							10	14.56	*****	5.34	*****	***	***	*****
20	14.52	*****	4.96							20	14.52	*****	4.96	*****	***	***	*****
30	14.53	*****	5.53							30	14.53	*****	5.53	*****	***	***	*****
50	14.45	*****	5.05							50	14.45	*****	5.05	*****	***	***	*****
75	13.42	*****	5.05							75	13.42	*****	5.05	*****	***	***	*****
100	12.10	*****	4.77							100	12.10	*****	4.77	*****	***	***	*****
125	11.06	*****	5.15							125	11.06	*****	5.15	*****	***	***	*****
150	8.89	*****	4.96							150	8.89	*****	4.96	*****	***	***	*****
200	3.60	*****	4.96							200	3.60	*****	4.96	*****	***	***	*****
250	1.78	*****	5.34							250	1.78	*****	5.34	*****	***	***	*****
300	1.05	*****	5.34							300	1.05	*****	5.34	*****	***	***	*****
400	.48	*****	4.86							400	.48	*****	4.86	*****	***	***	*****
500	.50	*****	4.77							500	.50	*****	4.77	*****	***	***	*****

KORFA ,CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, DEC.17.1980, 12.00 VST, DEPTH 1800 , COLOR 4, TRANS. 15.0,

WAVE 2, SWELL 1, WIND SE 2, BARO 1019. , AIR TEMP. DRY 12.0, WET , CLOUD. TYPE , AMT , WEATHER E ,

0	13.51	*****	5.43							0	13.51	*****	5.43	*****	***	***	0000
10	13.43	*****	5.15							10	13.43	*****	5.15	*****	***	***	*****
20	13.42	*****	5.05							20	13.42	*****	5.05	*****	***	***	*****
30	13.21	*****	5.05							30	13.21	*****	5.05	*****	***	***	*****
50	13.06	*****	4.96							50	13.06	*****	4.96	*****	***	***	*****
75	12.86	*****	4.86							75	12.86	*****	4.86	*****	***	***	*****

OBSERVED																INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY						
100	10.35	*****	5.05							100	10.35	*****	5.05	*****	***	***	*****						
125	9.31	*****	4.96							125	9.31	*****	4.96	*****	***	***	*****						
150	4.11	*****	5.05							150	4.11	*****	5.05	*****	***	***	*****						
200	2.84	*****	5.24							200	2.84	*****	5.24	*****	***	***	*****						
250	1.44	*****	4.86							250	1.44	*****	4.86	*****	***	***	*****						
300	1.47	*****	4.96							300	1.47	*****	4.96	*****	***	***	*****						
400	.90	*****	4.96							400	.90	*****	4.96	*****	***	***	*****						
500	.53	*****	4.96							500	.53	*****	4.96	*****	***	***	*****						
KOREA ,CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, DEC.17.1980, 06.50 VST, DEPTH 2375 , COLOR 4, TPANS. 15.0.																							
WAVE	2, SWELL	1, WIND SE	1, BARO 1010.	AIR TEMP. DRY	10.5, WET					0	12.56	*****	5.72	*****	***	***	.0000						
10	12.57	*****	5.81							10	12.57	*****	5.81	*****	***	***	*****						
20	12.53	*****	5.43							20	12.53	*****	5.43	*****	***	***	*****						
30	12.55	*****	5.43							30	12.55	*****	5.43	*****	***	***	*****						
50	12.55	*****	5.34							50	12.55	*****	5.34	*****	***	***	*****						
75	12.43	*****	5.34							75	12.43	*****	5.34	*****	***	***	*****						
100	11.23	*****	5.34							100	11.23	*****	5.34	*****	***	***	*****						
125	6.32	*****	5.24							125	6.32	*****	5.24	*****	***	***	*****						
150	4.04	*****	5.15							150	4.04	*****	5.15	*****	***	***	*****						
200	3.45	*****	4.96							200	3.45	*****	4.96	*****	***	***	*****						
250	2.92	*****	5.24							250	2.92	*****	5.24	*****	***	***	*****						
300	1.86	*****	5.15							300	1.86	*****	5.15	*****	***	***	*****						
400	.56	*****	5.05							400	.56	*****	5.05	*****	***	***	*****						
500	.56	*****	4.86							500	.56	*****	4.86	*****	***	***	*****						

104선 해양관측성적

Oceanographic Data. Line 104

Oceanographic Data. Line 104																	
OBSERVED									INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, FEB.17.1980, 18.10 KST, DEPTH 110 , COLOR , TRANS. . .																
WAVE	2, SWELL	1, WIND N	4, EARO 1027. , AIR TEMP. DRY	1.5, WET	. , CLOUD. TYPE CI, AMT 2, WEATHER B ,											
0	9.69 *****	6.52	0	9.69 *****	6.52	*****	6.52	*****	***	***	***	***	***	***	***	0.000
10	9.82 *****	6.50	10	9.82 *****	6.50	*****	6.50	*****	***	***	***	***	***	***	***	*****
20	9.72 *****	6.49	20	9.72 *****	6.49	*****	6.49	*****	***	***	***	***	***	***	***	*****
30	9.25 *****	6.57	30	9.25 *****	6.57	*****	6.57	*****	***	***	***	***	***	***	***	*****
50	8.45 *****	6.69	50	8.45 *****	6.69	*****	6.69	*****	***	***	***	***	***	***	***	*****
75	7.08 *****	6.87	75	7.08 *****	6.87	*****	6.87	*****	***	***	***	***	***	***	***	*****
100	6.91 *****	6.91	100	6.91 *****	6.91	*****	6.91	*****	***	***	***	***	***	***	***	*****

KOREA , CHUN MA SAN , STATION 104-05 , 37-03.4. N, 129-33.6. E, FEB.17.1980, 19.20 KST, DEPTH 220 , COLOR , TRANS. . .																
WAVE	4, SWELL	1, WIND N	4, EARO 1027. , AIR TEMP. DRY	1.5, WET	. , CLOUD. TYPE , AMT 3, WEATHER BC,											
0	9.65 *****	6.53	0	9.65 *****	6.53	*****	6.53	*****	***	***	***	***	***	***	***	0.000
10	9.72 *****	6.52	10	9.72 *****	6.52	*****	6.52	*****	***	***	***	***	***	***	***	*****
20	9.52 *****	6.54	20	9.52 *****	6.54	*****	6.54	*****	***	***	***	***	***	***	***	*****
30	9.14 *****	6.59	30	9.14 *****	6.59	*****	6.59	*****	***	***	***	***	***	***	***	*****
50	8.62 *****	6.66	50	8.62 *****	6.66	*****	6.66	*****	***	***	***	***	***	***	***	*****
75	8.45 *****	6.69	75	8.45 *****	6.69	*****	6.69	*****	***	***	***	***	***	***	***	*****
100	7.93 *****	6.76	100	7.93 *****	6.76	*****	6.76	*****	***	***	***	***	***	***	***	*****
125	7.70 *****	6.79	125	7.70 *****	6.79	*****	6.79	*****	***	***	***	***	***	***	***	*****
150	7.10 *****	6.88	150	7.10 *****	6.88	*****	6.88	*****	***	***	***	***	***	***	***	*****
200	3.17 *****	7.54	200	3.17 *****	7.54	*****	7.54	*****	***	***	***	***	***	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KORFA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, FEB.17.1980, 21.30 KST, DEPTH 600 , COLOR , TRANS. .																	
WAVE 4, SWELL 2, WIND NE 4, BARO 1027. , AIR TEMP. DRY 1.7, WET . , CLOUD. TYPE , AMT 3, WEATHER FC,																	
0	9.75	*****	6.52							0	9.75	*****	6.52	*****	***	***	.0000
10	9.84	*****	6.50							10	9.84	*****	6.50	*****	***	***	*****
20	9.83	*****	6.51							20	9.83	*****	6.51	*****	***	***	*****
30	9.83	*****	6.50							30	9.83	*****	6.50	*****	***	***	*****
50	9.71	*****	6.51							50	9.71	*****	6.51	*****	***	***	*****
75	9.64	*****	*****							75	9.64	*****	*****	*****	***	***	*****
100	9.62	*****	6.53							100	9.62	*****	6.53	*****	***	***	*****
125	9.43	*****	6.56							125	9.43	*****	6.56	*****	***	***	*****
150	9.32	*****	*****							150	9.32	*****	*****	*****	***	***	*****
200	8.54	*****	6.66							200	8.54	*****	6.66	*****	***	***	*****
250	7.67	*****	6.79							250	7.67	*****	6.79	*****	***	***	*****
300	6.32	*****	6.99							300	6.32	*****	6.99	*****	***	***	*****
400	2.08	*****	7.71							400	2.08	*****	7.71	*****	***	***	*****
500	1.20	*****	7.90							500	1.20	*****	7.90	*****	***	***	*****

KORFA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, FEB.17.1980, 23.40 KST, DEPTH 1050 , COLOR , TRANS. . .																	
WAVE 4, SWELL 2, WIND NW 4, EARO 1027. , AIR TEMP. DRY 1.5, WET . , CLOUD. TYPE , AMT 2, WEATHER FC,																	
0	9.58	*****	6.53							0	9.58	*****	6.53	*****	***	***	.0000
10	9.77	*****	6.51							10	9.77	*****	6.51	*****	***	***	*****
20	9.71	*****	6.52							20	9.71	*****	6.52	*****	***	***	*****
30	9.67	*****	6.59							30	9.67	*****	6.59	*****	***	***	*****
50	9.50	*****	6.55							50	9.50	*****	6.55	*****	***	***	*****
75	9.30	*****	6.57							75	9.30	*****	6.57	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

100	9.10	*****	6.59							100	9.19	*****	6.59	*****	***	***	*****
125	9.16	*****	6.59							125	9.16	*****	6.59	*****	***	***	*****
150	9.10	*****	6.60							150	9.10	*****	6.60	*****	***	***	*****
200	9.08	*****	6.59							200	9.08	*****	6.59	*****	***	***	*****
250	8.70	*****	6.65							250	8.70	*****	6.65	*****	***	***	*****
300	6.66	*****	6.95							300	6.66	*****	6.95	*****	***	***	*****
400	3.08	*****	7.52							400	3.08	*****	7.52	*****	***	***	*****
500	2.23	*****	7.70							500	2.23	*****	7.70	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 104-08 , 37-03.4. N, 130-18.7. E, FEB.18.1980, 02.40 KST, DEPTH 720 , COLOR , TPANS. . .

WAVE	5, SWELL	2, WIND SE	5, BARO 1023.5, AIR TEMP. DRY	2.0, WET	. , CLOUD. TYPE	. , AMT	8, WEATHER C
0	9.76 *****	6.52		0	9.76 *****	6.52	***
10	9.83 *****	6.49		10	9.83 *****	6.49	***
20	9.76 *****	6.52		20	9.76 *****	6.52	***
30	9.74 *****	6.52		30	9.74 *****	6.52	***
50	9.66 *****	6.53		50	9.66 *****	6.53	***
75	9.64 *****	6.39		75	9.64 *****	6.39	***
100	9.58 *****	6.53		100	9.58 *****	6.53	***
125	9.57 *****	6.54		125	9.57 *****	6.54	***
150	9.49 *****	6.55		150	9.49 *****	6.55	***
200	7.94 *****	6.75		200	7.94 *****	6.75	***
250	3.78 *****	7.45		250	3.78 *****	7.45	***
300	1.51 *****	7.83		300	1.51 *****	7.83	***
400	1.20 *****	7.92		400	1.20 *****	7.92	***
							0.000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-09 , 37-03.4. N, 130-37.6. E, FEB.18.1960, 08.40 KST, DEPTH 2340 , COLOR , TRANS. . ,
WAVE 5, SWELL 2, WIND SE 5, EARO 1023.5, AIR TEMP. DRY 2.0, WET . , CLOUD. TYPE ST, AMT 9, WEATHER C ,
0 9.90 ***** 6.49 0 9.90 ***** 6.49 ***** *** .0000
10 9.86 ***** 6.49 10 9.86 ***** 6.49 ***** ***
20 9.78 ***** 6.50 20 9.78 ***** 6.50 ***** ***
30 9.74 ***** 6.52 30 9.74 ***** 6.52 ***** ***
50 9.74 ***** 6.52 50 9.74 ***** 6.52 ***** ***
75 9.67 ***** 6.53 75 9.67 ***** 6.53 ***** ***
100 9.62 ***** 6.53 100 9.62 ***** 6.53 ***** ***
125 9.60 ***** 6.53 125 9.60 ***** 6.53 ***** ***
150 9.29 ***** 6.58 150 9.29 ***** 6.58 ***** ***
200 9.15 ***** 6.59 200 9.15 ***** 6.59 ***** ***
250 8.58 ***** 6.66 250 8.58 ***** 6.66 ***** ***
300 8.25 ***** 6.71 300 8.25 ***** 6.71 ***** ***
400 3.65 ***** 7.45 400 3.65 ***** 7.45 ***** ***
500 .93 ***** 7.95 500 .93 ***** 7.95 ***** ***

KOREA ,CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, FEB.18.1980, 08.40 KST, DEPTH 1800 , COLOR 3, TRANS. 15.5,
WAVE 5, SWELL 2, WIND SE 5, EARO 1023.5, AIR TEMP. DRY 2.6, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,
0 9.50 ***** 6.55 0 9.50 ***** 6.55 ***** *** .0000
10 9.71 ***** 6.52 10 9.71 ***** 6.52 ***** ***
20 9.79 ***** 6.52 20 9.79 ***** 6.52 ***** ***
30 9.69 ***** 6.51 30 9.69 ***** 6.51 ***** ***
50 9.68 ***** 6.53 50 9.68 ***** 6.53 ***** ***
75 9.68 ***** 6.52 75 9.68 ***** 6.52 ***** ***

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

100	9.61	*****	6.53							100	9.61	*****	6.53	*****	***	***	*****
125	9.55	*****	6.53							125	9.55	*****	6.53	*****	***	***	*****
150	9.50	*****	6.54							150	9.50	*****	6.54	*****	***	***	*****
200	9.50	*****	6.55							200	9.50	*****	6.55	*****	***	***	*****
250	5.60	*****	7.11							250	5.60	*****	7.11	*****	***	***	*****
300	2.09	*****	7.73							300	2.09	*****	7.73	*****	***	***	*****
400	1.20	*****	7.88							400	1.20	*****	7.88	*****	***	***	*****
500	.85	*****	7.95							500	.85	*****	7.95	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, FEB.18.1960, 11.40 KST, DEPTH 2325 , COLOR 4, TRANS. 17.5.

WAVE	S, SWELL	2, WIND SE	S, EARO 1023.5, AIR TEMP. DRY	2.2, WET	, CLOUD. TYPE CI, AMT 10, WEATHER C ,
0	9.43	*****	6.55	0	9.43
10	9.50	*****	6.54	10	9.50
20	9.10	*****	6.59	20	9.10
30	9.19	*****	6.58	30	9.19
50	9.14	*****	6.59	50	9.14
75	9.01	*****	6.60	75	9.01
100	8.82	*****	6.63	100	8.82
125	8.31	*****	6.70	125	8.31
150	8.27	*****	6.61	150	8.27
200	7.88	*****	6.77	200	7.88
250	7.85	*****	6.76	250	7.85
300	5.98	*****	7.07	300	5.98
400	1.14	*****	7.92	400	1.14
500	.62	*****	8.02	500	.62

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY								

4 월(April)

KOREA ,CHUN MA SAN , STATION 104-U4 , 37-03.4. N, 120-28.8. E, APR. 8.1980, 17.20 VST, DEPTH 110 , COLOR 4, TRANS. 12.0.																	
WAVE 3, SWELL 3, WIND NE 2, EARC 1007. , AIR TEMP. DRY 11.2, WET . , CLOUD. TYPE CI, AMT 6, WEATHER EC,																	
0	9.85	*****	6.50						0	9.95	*****	6.50	*****	***	***	.0000	
10	9.66	*****	6.52						10	9.66	*****	6.52	*****	***	***	*****	/
20	8.57	*****	6.65						20	8.57	*****	6.65	*****	***	***	*****	
30	7.34	*****	6.83						30	7.34	*****	6.83	*****	***	***	*****	
50	5.33	*****	7.14						50	5.33	*****	7.14	*****	***	***	*****	
75	2.08	*****	*****						75	2.08	*****	*****	*****	***	***	*****	
100	.87	*****	7.96						100	.87	*****	7.96	*****	***	***	*****	

KOREA ,CHUN MA SAN , STATION 104-U5 , 37-03.4. N, 129-33.6. E, APR. 8.1980, 18.50 KST, DEPTH 220 , COLOR , TRANS. ,																		
WAVE 2, SWELL 1, WIND NE 2, EARD 1007. , AIR TLM.P. DRY 11.5, WET . , CLOUD. TYPE CI, AMT 6, WEATHER PC,																		
0	11.11	*****	6.30							0	11.11	*****	6.30	*****	***	***	.0000	
10	10.92	*****	6.33							10	10.92	*****	6.33	*****	***	***	*****	
20	10.87	*****	6.36							20	10.87	*****	6.36	*****	***	***	*****	
30	7.83	*****	6.74							30	7.83	*****	6.74	*****	***	***	*****	
50	6.18	*****	6.99							50	6.18	*****	6.99	*****	***	***	*****	
75	5.70	*****	7.08							75	5.70	*****	7.08	*****	***	***	*****	
100	2.79	*****	7.60							100	2.79	*****	7.60	*****	***	***	*****	
125	1.71	*****	7.79							125	1.71	*****	7.79	*****	***	***	*****	
150	.94	*****	7.91							150	.94	*****	7.91	*****	***	***	*****	
200	.59	*****	7.98							200	.59	*****	7.98	*****	***	***	*****	

OBSERVED																		INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

KOREA , CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, APR. 8.1980, 21.30 KST, DEPTH 600 , COLOR , TRANS. . . .

WAVE 2, SWELL 1, WIND NE 3, BARO 1007. , AIR TEMP. DRY 11.5, WET . , CLOUD. TYPE , AMT 6, WEATHER FC, .0000

0	11.50	*****	6.25							0	11.50	*****	6.25	*****	***	***	.0000
10	11.47	*****	6.25							10	11.47	*****	6.25	*****	***	***	*****
20	11.42	*****	6.26							20	11.42	*****	6.26	*****	***	***	*****
30	11.39	*****	6.26							30	11.39	*****	6.26	*****	***	***	*****
50	11.20	*****	6.27							50	11.20	*****	6.27	*****	***	***	*****
75	9.56	*****	6.51							75	9.56	*****	6.51	*****	***	***	*****
100	9.06	*****	6.57							100	9.06	*****	6.57	*****	***	***	*****
125	7.86	*****	6.77							125	7.86	*****	6.77	*****	***	***	*****
150	4.95	*****	7.18							150	4.95	*****	7.18	*****	***	***	*****
200	4.03	*****	7.29							200	4.03	*****	7.29	*****	***	***	*****
250	1.84	*****	7.75							250	1.84	*****	7.75	*****	***	***	*****
300	.88	*****	7.95							300	.88	*****	7.95	*****	***	***	*****
400	.72	*****	7.97							400	.72	*****	7.97	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, APR. 9.1980, 00.00 KST, DEPTH 1050 , COLOR , TRANS. . . .

WAVE 2, SWELL 1, WIND NE 3, BARO 1009. , AIR TEMP. DRY 11.8, WET . , CLOUD. TYPE , AMT 6, WEATHER FC, .0000

0	12.25	*****	6.17							0	12.25	*****	6.17	*****	***	***	.0000
10	12.21	*****	6.16							10	12.21	*****	6.16	*****	***	***	*****
20	12.24	*****	6.17							20	12.24	*****	6.17	*****	***	***	*****
30	12.19	*****	6.17							30	12.19	*****	6.17	*****	***	***	*****
50	10.49	*****	6.39							50	10.49	*****	6.39	*****	***	***	*****
75	9.73	*****	6.50							75	9.73	*****	6.50	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

100	8.90	*****	6.59							100	8.90	*****	6.59	****	***	***	*****
125	7.60	*****	6.79							125	7.60	*****	6.79	*****	***	***	*****
150	4.35	*****	7.30							150	4.35	*****	7.30	*****	***	***	*****
200	3.13	*****	7.50							200	3.13	*****	7.50	*****	***	***	*****
250	3.04	*****	7.51							250	3.04	*****	7.51	*****	***	***	*****
300	2.57	*****	7.61							300	2.57	*****	7.61	*****	***	***	*****
400	1.22	*****	7.87							400	1.22	*****	7.87	*****	***	***	*****
500	.48	*****	8.02							500	.48	*****	8.02	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-US , 37-07.6. N, 130-18.7. E, APP. 9.1980, 03.00 PST, DEPTH 720 , COLOR , TRANS. . .

WAVE	3, SWELL	1, WIND RE	4, EARO 1010. , AIR TEMP. DRY 11.5, WET	5, CLOUD. TYPE	6, AMT	7, WEATHER FC,								
0	10.78	*****	6.35		0	10.78	*****	6.35	*****	***	***	***	*****	0.000
10	10.53	*****	6.37		10	10.53	*****	6.37	*****	***	***	***	*****	
20	10.34	*****	6.39		20	10.34	*****	6.39	*****	***	***	***	*****	
30	9.81	*****	6.47		30	9.81	*****	6.47	*****	***	***	***	*****	
50	9.46	*****	6.52		50	9.46	*****	6.52	*****	***	***	***	*****	
75	9.44	*****	6.52		75	9.44	*****	6.52	*****	***	***	***	*****	
100	9.37	*****	6.54		100	9.37	*****	6.54	*****	***	***	***	*****	
125	9.36	*****	6.54		125	9.36	*****	6.54	*****	***	***	***	*****	
150	9.29	*****	6.55		150	9.29	*****	6.55	*****	***	***	***	*****	
200	9.41	*****	6.52		200	9.41	*****	6.52	*****	***	***	***	*****	
250	9.01	*****	6.56		250	9.01	*****	6.56	*****	***	***	***	*****	
300	7.38	*****	6.81		300	7.38	*****	6.81	*****	***	***	***	*****	
400	3.51	*****	7.43		400	3.51	*****	7.43	*****	***	***	***	*****	
500	1.51	*****	7.79		500	1.51	*****	7.79	*****	***	***	***	*****	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA CHUN MA SAN , STATION 104-03 , 37-03.4. N, 130-57.6. E, APR. 9.1980, 06.10 PST, DEPTH 2360 , COLOR 3, TRANS. 15.0,																	
WAVE 4, SWELL 2, WIND NW 5, EARO 1010. , AIR TEMP. DRY 10.0, WET . , CLOUD. TYPE ST, AMT 6, WEATHER PC,																	
0	9.54	*****	6.51							0	9.54	*****	6.51	*****	***	***	.0000
10	9.52	*****	6.50							10	9.52	*****	6.50	*****	***	***	*****
20	9.48	*****	6.53							20	9.44	*****	6.53	*****	***	***	*****
30	9.43	*****	6.52							30	9.43	*****	6.52	*****	***	***	*****
50	9.42	*****	6.52							50	9.42	*****	6.52	*****	***	***	*****
75	9.28	*****	6.54							75	9.28	*****	6.54	*****	***	***	*****
100	9.18	*****	6.55							100	9.18	*****	6.55	*****	***	***	*****
125	9.07	*****	6.56							125	9.07	*****	6.56	*****	***	***	*****
150	8.68	*****	6.62							150	8.66	*****	6.62	*****	***	***	*****
200	8.59	*****	6.63							200	8.59	*****	6.63	*****	***	***	*****
250	7.66	*****	6.76							250	7.64	*****	6.76	*****	***	***	*****
300	5.39	*****	7.11							300	5.39	*****	7.11	*****	***	***	*****
400	1.01	*****	7.88							400	1.01	*****	7.88	*****	***	***	*****
500	.51	*****	8.00							500	.51	*****	8.00	*****	***	***	*****
KOREA CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, APR. 10.1980, 12.00 PST, DEPTH 1800 , COLOR 4, TRANS. 19.0,																	
WAVE 2, SWELL 2, WIND E 3, EARO 1022. , AIR TEMP. DRY 8.6, WET . , CLOUD. TYPE CI, AMT 2, WEATHER T ,																	
0	9.60	*****	6.51							0	9.60	*****	6.51	*****	***	***	.0000
10	9.64	*****	6.50							10	9.64	*****	6.50	*****	***	***	*****
20	9.61	*****	6.49							20	9.61	*****	6.49	*****	***	***	*****
30	9.61	*****	6.50							30	9.61	*****	6.50	*****	***	***	*****
50	9.55	*****	6.53							50	9.55	*****	6.53	*****	***	***	*****
75	9.53	*****	6.53							75	9.53	*****	6.53	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA T	DT	SWA	DT
100	9.52	*****	6.51							100	9.52	*****	6.51	*****	0.00	0.00	0.00
125	9.44	*****	6.52							125	9.44	*****	6.52	*****	0.00	0.00	0.00
150	9.32	*****	6.53							150	9.32	*****	6.53	*****	0.00	0.00	0.00
200	9.31	*****	6.53							200	9.31	*****	6.53	*****	0.00	0.00	0.00
250	9.22	*****	6.55							250	9.22	*****	6.55	*****	0.00	0.00	0.00
300	7.58	*****	6.76							300	7.58	*****	6.76	*****	0.00	0.00	0.00
400	3.25	*****	7.46							400	3.25	*****	7.46	*****	0.00	0.00	0.00
500	1.15	*****	7.80							500	1.15	*****	7.80	*****	0.00	0.00	0.00
KOREA, CHUN MA SAN, STATION 104-11, 37-03.4. N, 131-15.3. E, APR. 10, 1980, 15.00 PST, DEPTH 232', COLOR 3, TRAVS. 19.0																	
WAVE 3, SWELL 2, WIND SE 4, BARO 1020.5, AIR TEMP. DRY 7.8, WET, CLOUD. TYPE CI, AMT 2, WEATHER C.																	
0	9.83	*****	6.49							0	9.83	*****	6.49	*****	0.00	0.00	0.00
10	9.67	*****	6.50							10	9.67	*****	6.50	*****	0.00	0.00	0.00
20	9.56	*****	6.49							20	9.56	*****	6.49	*****	0.00	0.00	0.00
30	9.45	*****	6.51							30	9.45	*****	6.51	*****	0.00	0.00	0.00
50	9.45	*****	6.51							50	9.45	*****	6.51	*****	0.00	0.00	0.00
75	9.45	*****	6.52							75	9.45	*****	6.52	*****	0.00	0.00	0.00
100	9.44	*****	6.51							100	9.44	*****	6.51	*****	0.00	0.00	0.00
125	9.41	*****	6.52							125	9.41	*****	6.52	*****	0.00	0.00	0.00
150	9.35	*****	6.51							150	9.35	*****	6.51	*****	0.00	0.00	0.00
200	9.27	*****	6.53							200	9.27	*****	6.53	*****	0.00	0.00	0.00
250	9.15	*****	6.56							250	9.15	*****	6.56	*****	0.00	0.00	0.00
300	8.10	*****	6.69							300	8.10	*****	6.69	*****	0.00	0.00	0.00
400	6.57	*****	6.93							400	6.57	*****	6.93	*****	0.00	0.00	0.00
500	1.80	*****	7.72							500	1.80	*****	7.72	*****	0.00	0.00	0.00

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D.W

6월(June)

KOREA , CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, JUN. 9, 1980, 17.10 PST, DEPTH 110 , COLOR 4, TRANS. 13.0.

WAVE 1, SWELL 1, WIND SE 2, EARN 1004.5, AIR TEMP. DRY 23.0, WFT , CLOUD. TYPE CI, AMT 6, WEATHEF CC,																	
0	16.18	*****	6.65							0	16.18	*****	6.65	*****	***	***	0.000
10	14.85	*****	6.27							10	14.95	*****	6.27	*****	***	***	0.000
20	14.58	*****	6.13							20	14.58	*****	6.13	*****	***	***	0.000
30	13.42	*****	5.61							30	13.42	*****	5.61	*****	***	***	0.000
50	9.01	*****	6.46							50	9.01	*****	6.46	*****	***	***	0.000
75	5.06	*****	5.89							75	5.06	*****	5.89	*****	***	***	0.000
100	3.31	*****	5.89							100	3.31	*****	5.89	*****	***	***	0.000

KOREA , CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, JUN. 10, 1980, 17.10 PST, DEPTH 110 , COLOR 4, TRANS. 13.0.

WAVE 1, SWELL 1, WIND SE 2, EARN 1004.5, AIR TEMP. DRY 21.5, WFT , CLOUD. TYPE CI, AMT 6, WEATHEF CC,																	
0	15.51	*****	6.74							0	15.51	*****	6.74	*****	***	***	0.000
10	14.62	*****	5.70							10	14.62	*****	5.70	*****	***	***	0.000
20	14.26	*****	5.61							20	14.26	*****	5.61	*****	***	***	0.000
30	13.45	*****	5.51							30	13.45	*****	5.51	*****	***	***	0.000
50	11.85	*****	5.80							50	11.85	*****	5.80	*****	***	***	0.000
75	9.47	*****	6.08							75	9.47	*****	6.08	*****	***	***	0.000
100	6.00	*****	5.61							100	6.00	*****	5.61	*****	***	***	0.000
125	4.77	*****	5.51							125	4.77	*****	5.51	*****	***	***	0.000
150	3.83	*****	5.70							150	3.83	*****	5.70	*****	***	***	0.000
200	3.72	*****	5.80							200	3.72	*****	5.80	*****	***	***	0.000

OBSERVED																		INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY									

KOREA , CHUN MA SAN , STATION 104-06 , 37-03.4. N, 120-47.6. E, JUN.10.1980, 11.50 VST, DEPTH 600 , COLOR 3, TRANS. 18.5,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1003. , AIR TEMP. DRY 25.5, WET , , CLOUD. TYPE CI, AMT 7, WEATHER FC,
 0 18.00 ***** 6.27 0 18.09 ***** 6.27 ***** *** *** .0000
 10 16.80 ***** 6.56 10 16.80 ***** 6.56 ***** *** ***
 20 16.22 ***** 6.08 20 16.22 ***** 6.08 ***** *** ***
 30 15.19 ***** 5.99 30 15.19 ***** 5.99 ***** *** ***
 50 14.82 ***** 5.70 50 14.82 ***** 5.70 ***** *** ***
 75 11.60 ***** 5.61 75 11.60 ***** 5.61 ***** *** ***
 100 9.98 ***** 5.51 100 9.98 ***** 5.51 ***** *** ***
 125 8.82 ***** 5.99 125 8.82 ***** 5.99 ***** *** ***
 150 7.60 ***** 5.51 150 7.60 ***** 5.51 ***** *** ***
 200 2.24 ***** 6.17 200 2.24 ***** 6.17 ***** *** ***
 250 .85 ***** 5.89 250 .85 ***** 5.89 ***** *** ***
 300 .84 ***** 5.80 300 .84 ***** 5.80 ***** *** ***
 400 .64 ***** 5.89 400 .64 ***** 5.89 ***** *** ***
 500 .98 ***** 5.80 500 .98 ***** 5.80 ***** *** ***

KOREA , CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, JUN.10.1980, 14.20 VST, DEPTH 1050 , COLOR 3, TRANS. 20.0,
 WAVE 3, SWELL 1, WIND SE 3, BARO 1002.5, AIR TEMP. DRY 27.0, WET , , CLOUD. TYPE CI, AMT 7, WEATHER FC,
 0 17.87 ***** 5.61 0 17.87 ***** 5.61 ***** *** *** .0000
 10 16.93 ***** 5.70 10 16.93 ***** 5.70 ***** *** ***
 20 16.31 ***** 5.70 20 16.31 ***** 5.70 ***** *** ***
 30 15.89 ***** 5.61 30 15.89 ***** 5.61 ***** *** ***
 50 14.22 ***** 5.51 50 14.22 ***** 5.51 ***** *** ***
 75 12.30 ***** 5.51 75 12.30 ***** 5.51 ***** *** ***

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100	11.10	*****	5.42							100	11.10	*****	5.42	*****	***	***	*****
125	9.59	*****	5.80							125	9.59	*****	5.80	*****	***	***	*****
150	7.95	*****	5.99							150	7.95	*****	5.99	*****	***	***	*****
200	7.07	*****	5.89							200	7.07	*****	5.89	*****	***	***	*****
250	6.94	*****	5.70							250	6.94	*****	5.70	*****	***	***	*****
300	6.70	*****	5.79							300	6.70	*****	5.79	*****	***	***	*****
400	6.43	*****	5.79							400	6.43	*****	5.79	*****	***	***	*****
500	1.88	*****	5.61							500	1.88	*****	5.61	*****	***	***	*****

KOREA, CHUN MA SAN, STATION 104-08, 37-03.4. N, 130-18.7. E, JUN.10.1980, 17.40 KST, DEPTH 720, COLOR 3, TPANS. 19.5,

WAVE 3, SWELL 1, WIND SE 3, BARO 1002., AIP TEMP. DRY 23.5, WET ., CLOUD. TYPE CI, AMT 5, WEATHER FC,

0	17.74	*****	5.51							0	17.74	*****	5.51	*****	***	***	.0000
10	16.74	*****	5.42							10	16.74	*****	5.42	*****	***	***	*****
20	16.60	*****	5.51							20	16.69	*****	5.51	*****	***	***	*****
30	16.10	*****	5.61							30	16.10	*****	5.61	*****	***	***	*****
50	14.88	*****	5.32							50	14.88	*****	5.32	*****	***	***	*****
75	11.11	*****	5.42							75	11.11	*****	5.42	*****	***	***	*****
100	10.21	*****	6.84							100	10.21	*****	6.84	*****	***	***	*****
125	9.86	*****	6.08							125	9.86	*****	6.08	*****	***	***	*****
150	9.46	*****	6.74							150	9.46	*****	6.74	*****	***	***	*****
200	9.14	*****	5.89							200	9.14	*****	5.89	*****	***	***	*****
250	6.20	*****	6.18							250	6.20	*****	6.18	*****	***	***	*****
300	4.90	*****	6.27							300	4.90	*****	6.27	*****	***	***	*****
400	1.73	*****	5.51							400	1.73	*****	5.51	*****	***	***	*****
500	.97	*****	6.17							500	.97	*****	6.17	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 104-00 , 37-03.4. N, 130-37.6. E, JUN.10.1980, 21.10 KST, DEPTH 2340 , COLOR , TRANS. .																	
WAVE 3, SWELL 1, WIND SE 3, CLRD 1001.5, AIR TEMP. 21.0, WET . , CLOUD, TYPE , AMT 4, WEATHER EC,																	
0	17.43	*****	5.61							0	17.43	*****	5.61	*****	***	***	.0000
10	16.78	*****	5.32							10	16.78	*****	5.32	*****	***	***	*****
20	16.48	*****	5.61							20	16.48	*****	5.61	*****	***	***	*****
30	16.30	*****	5.42							30	16.30	*****	5.42	*****	***	***	*****
50	15.81	*****	*****							50	15.81	*****	*****	*****	***	***	*****
75	12.25	*****	5.42							75	12.25	*****	5.42	*****	***	***	*****
100	10.55	*****	5.32							100	10.55	*****	5.32	*****	***	***	*****
125	9.99	*****	5.70							125	9.99	*****	5.70	*****	***	***	*****
150	9.86	*****	5.80							150	9.86	*****	5.80	*****	***	***	*****
200	7.08	*****	5.80							200	7.08	*****	5.80	*****	***	***	*****
250	6.21	*****	5.70							250	6.21	*****	5.70	*****	***	***	*****
300	2.27	*****	5.32							300	2.27	*****	5.32	*****	***	***	*****
400	.98	*****	5.89							400	.98	*****	5.89	*****	***	***	*****
500	.81	*****	5.98							500	.81	*****	5.98	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, JUN.11.1980, 00.20 KST, DEPTH 1800 , COLOR , TRANS. . .																		
WAVE	3, SWELL	1, WIND	3, CLRD	1001.5, AIR TEMP	21.0, WET	. , CLOUD, TYPE , AMT , WEATHER ,												
0	17.17	*****	5.89			0	17.17	*****	5.89	*****	***	***	.0000					
10	16.71	*****	5.51			10	16.71	*****	5.51	*****	***	***	*****					
20	15.61	*****	5.61			20	15.61	*****	5.61	*****	***	***	*****					
30	15.11	*****	5.51			30	15.11	*****	5.51	*****	***	***	*****					
50	14.30	*****	5.42			50	14.30	*****	5.42	*****	***	***	*****					
75	13.26	*****	5.42			75	13.26	*****	5.42	*****	***	***	*****					

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

100	10.91	*****	5.81							100	10.91	*****	5.81	*****	***	***	*****
125	10.77	*****	5.99							125	10.77	*****	5.99	*****	***	***	*****
150	10.55	*****	5.70							150	10.55	*****	5.70	*****	***	***	*****
200	9.05	*****	5.70							200	9.05	*****	5.70	*****	***	***	*****
250	7.10	*****	5.51							250	7.10	*****	5.51	*****	***	***	*****
300	3.81	*****	6.08							300	3.81	*****	6.08	*****	***	***	*****
400	.80	*****	6.18							400	.80	*****	6.18	*****	***	***	*****
500	.62	*****	5.51							500	.62	*****	5.51	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, JUN-11-1980, 03:30 KST, DEPTH 2325 , COLOR , TRANS. . .

WAVE	0	17.02	*****	5.51						0	17.02	*****	5.51	*****	***	***	.0000
	10	16.68	*****	5.70						10	16.68	*****	5.70	*****	***	***	*****
	20	15.95	*****	5.51						20	15.95	*****	5.51	*****	***	***	*****
	30	14.49	*****	6.08						30	14.49	*****	6.08	*****	***	***	*****
	50	13.36	*****	6.08						50	13.36	*****	6.08	*****	***	***	*****
	75	12.84	*****	6.84						75	12.84	*****	6.84	*****	***	***	*****
	100	11.23	*****	5.42						100	11.23	*****	5.42	*****	***	***	*****
	125	9.70	*****	5.70						125	9.70	*****	5.70	*****	***	***	*****
	150	9.03	*****	6.93						150	9.03	*****	6.93	*****	***	***	*****
	200	7.96	*****	5.70						200	7.96	*****	5.70	*****	***	***	*****
	250	7.80	*****	5.80						250	7.80	*****	5.80	*****	***	***	*****
	300	7.61	*****	5.61						300	7.61	*****	5.61	*****	***	***	*****
	400	5.11	*****	6.08						400	5.11	*****	6.08	*****	***	***	*****
	500	.87	*****	5.88						500	.87	*****	5.88	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

8월(August)

KOREA , CHUN MA SAN , STATION 104-04 , 37-03.6. N, 120-28.8. E, AUG.11.1980, 08.40 VST, DEPTH 110 , COLOR 5, TRANS. 17.5.

WAVE 4, SWELL 1, WIND NE 4, BARO 1005.5, AIR TEMP. DRY 22.5, WET . , CLOUD. TYPE AS, AMT 5, WEATHER EC,

0	20.88	*****	5.36							0	20.88	*****	5.36	*****	***	***	.0000
10	20.62	*****	5.56							10	20.62	*****	5.56	*****	***	***	*****
20	20.13	*****	4.97							20	20.13	*****	4.97	*****	***	***	*****
30	18.70	*****	*****							30	18.70	*****	*****	*****	***	***	*****
50	12.64	*****	4.10							50	12.64	*****	4.10	*****	***	***	*****
75	7.09	*****	4.56							75	7.09	*****	4.56	*****	***	***	*****
100	4.68	*****	4.75							100	4.68	*****	4.75	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-05 , 37-03.6. N, 120-33.6. E, AUG.11.1980, 09.50 VST, DEPTH 220 , COLOR 4, TRANS. 19.5.

WAVE 4, SWELL 1, WIND NE 4, BARO 1006. , AIR TEMP. DRY 20.7, WET . , CLOUD. TYPE AS, AMT 7, WEATHER EC,

0	20.80	*****	4.56							0	20.80	*****	4.56	*****	***	***	.0000
10	20.65	*****	4.87							10	20.65	*****	4.87	*****	***	***	*****
20	18.56	*****	5.58							20	18.56	*****	5.58	*****	***	***	*****
30	17.99	*****	4.97							30	17.99	*****	4.97	*****	***	***	*****
50	10.94	*****	4.78							50	10.94	*****	4.78	*****	***	***	*****
75	7.43	*****	4.17							75	7.43	*****	4.17	*****	***	***	*****
100	5.10	*****	5.29							100	5.10	*****	5.29	*****	***	***	*****
125	4.01	*****	5.85							125	4.01	*****	5.85	*****	***	***	*****
150	1.75	*****	5.46							150	1.75	*****	5.46	*****	***	***	*****
200	1.48	*****	4.97							200	1.48	*****	4.97	*****	***	***	*****

OBSERVED																	INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, AUG.11.1980, 11.50 KST, DEPTH 600 , COLOR 3, TRANS. 20.0.

WAVE S, SWELL 2, WIND NE 5, BARO 1006. , AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,

0	21.05	*****	5.56							0	21.05	*****	5.56	*****	***	***	.0000
10	20.81	*****	5.26							10	20.81	*****	5.26	*****	***	***	*****
20	20.54	*****	4.97							20	20.54	*****	4.97	*****	***	***	*****
30	12.13	*****	4.97							30	12.13	*****	4.97	*****	***	***	*****
50	8.09	*****	5.36							50	8.09	*****	5.36	*****	***	***	*****
75	4.94	*****	5.17							75	4.94	*****	5.17	*****	***	***	*****
100	2.84	*****	5.17							100	2.84	*****	5.17	*****	***	***	*****
125	2.75	*****	5.07							125	2.75	*****	5.07	*****	***	***	*****
150	1.32	*****	5.26							150	1.32	*****	5.26	*****	***	***	*****
200	.66	*****	5.56							200	.66	*****	5.56	*****	***	***	*****
250	.72	*****	5.17							250	.72	*****	5.17	*****	***	***	*****
300	.57	*****	5.95							300	.57	*****	5.95	*****	***	***	*****
400	.55	*****	5.17							400	.55	*****	5.17	*****	***	***	*****
500	.48	*****	****							500	.48	*****	****	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, AUG.11.1980, 14.10 KST, DEPTH 1050 , COLOR 3, TRANS. 21.0.

WAVE S, SWELL 2, WIND NE 5, BARO 1006. , AIR TEMP. DRY 22.5, WET . , CLOUD. TYPE CI, AMT 4, WEATHER BC,

0	21.23	*****	5.36							0	21.23	*****	5.36	*****	***	***	.0000
10	21.05	*****	5.07							10	21.05	*****	5.07	*****	***	***	*****
20	19.83	*****	5.26							20	19.83	*****	5.26	*****	***	***	*****
30	16.49	*****	5.26							30	16.49	*****	5.26	*****	***	***	*****
50	15.11	*****	4.97							50	15.11	*****	4.97	*****	***	***	*****
75	14.53	*****	4.92							75	14.53	*****	4.92	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	12.03	*****	5.07							100	12.03	*****	5.07	*****	***	***	*****
125	10.42	*****	*****							125	10.42	*****	*****	*****	***	***	*****
150	7.34	*****	5.17							150	7.34	*****	5.17	*****	***	***	*****
200	2.36	*****	5.56							200	2.36	*****	5.56	*****	***	***	*****
250	.95	*****	5.75							250	.95	*****	5.75	*****	***	***	*****
300	.89	*****	5.95							300	.89	*****	5.95	*****	***	***	*****
400	.53	*****	5.95							400	.53	*****	5.95	*****	***	***	*****
500	.37	*****	5.75							500	.37	*****	5.75	*****	***	***	*****

KOREA, CHUN MA SAN, STATION 104-08, 37-03.4, N, 130-18.7, E, AUG. 11, 1980, 16.20 KST, DEPTH 720, COLOR 3, TRANS. 21.5,
 WAVE 4, SWELL 1, WIND NE 4, BARD 1006.5, AIR TEMP. DRY 22.6, WFT ., CLOUD. TYPE CU, AMT 3, WEATHER EC,

0	21.88	*****	6.34							0	21.88	*****	6.34	*****	***	***	.0000
10	21.32	*****	5.46							10	21.32	*****	5.46	*****	***	***	*****
20	19.49	*****	5.36							20	19.49	*****	5.36	*****	***	***	*****
30	16.91	*****	5.75							30	16.91	*****	5.75	*****	***	***	*****
50	15.23	*****	5.65							50	15.23	*****	5.65	*****	***	***	*****
75	14.49	*****	4.97							75	14.49	*****	4.97	*****	***	***	*****
100	12.16	*****	4.68							100	12.16	*****	4.68	*****	***	***	*****
125	10.44	*****	5.17							125	10.44	*****	5.17	*****	***	***	*****
150	9.02	*****	5.46							150	9.02	*****	5.46	*****	***	***	*****
200	6.28	*****	4.68							200	6.28	*****	4.68	*****	***	***	*****
250	1.87	*****	4.58							250	1.87	*****	4.58	*****	***	***	*****
300	1.35	*****	4.49							300	1.35	*****	4.49	*****	***	***	*****
400	.72	*****	5.56							400	.72	*****	5.56	*****	***	***	*****
500	.48	*****	5.26							500	.48	*****	5.26	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA ,CHUN MA SAN , STATION 104-00 , 37-03.4. N, 130-37.6. E, AUG.11.1980, 18.40 VST, DEPTH 2340 , COLOR , TRANS. .																		
WAVE 4, SWELL 1, WIND NE 4, BARO 1006.5, AIR TEMP. DRY 22.5, WET . , CLOUD. TYPE CU, AMT 4, WEATHER BC,																		
0	22.02	*****	5.17							0	22.02	*****	5.17	*****	***	***	.0000	
10	22.09	*****	5.46							10	22.09	*****	5.46	*****	***	***	*****	
20	18.30	*****	5.75							20	18.30	*****	5.75	*****	***	***	*****	
30	15.72	*****	5.26							30	15.72	*****	5.26	*****	***	***	*****	
50	14.57	*****	4.78							50	14.57	*****	4.78	*****	***	***	*****	
75	12.56	*****	5.26							75	12.56	*****	5.26	*****	***	***	*****	
100	10.34	*****	5.46							100	10.34	*****	5.46	*****	***	***	*****	
125	9.63	*****	5.65							125	9.63	*****	5.65	*****	***	***	*****	
150	7.98	*****	5.85							150	7.98	*****	5.85	*****	***	***	*****	
200	4.35	*****	5.56							200	4.35	*****	5.56	*****	***	***	*****	
250	2.37	*****	5.56							250	2.37	*****	5.56	*****	***	***	*****	
300	.92	*****	5.17							300	.92	*****	5.17	*****	***	***	*****	
400	.42	*****	5.56							400	.42	*****	5.56	*****	***	***	*****	
500	.39	*****	5.56							500	.39	*****	5.56	*****	***	***	*****	
KOREA ,CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, AUG.11.1980, 21.30 KST, DEPTH 1800 , COLOR , TRANS. .																		
WAVE , SWELL 1, WIND NE 4, BARO 1006.5, AIR TEMP. DRY 22.0, WET . , CLOUD. TYPE , AMT , WEATHER BC,																		
0	22.62	*****	5.17							0	22.62	*****	5.17	*****	***	***	.0000	
10	21.70	*****	5.17							10	21.70	*****	5.17	*****	***	***	*****	
20	20.59	*****	5.75							20	20.59	*****	5.75	*****	***	***	*****	
30	17.46	*****	5.65							30	17.46	*****	5.65	*****	***	***	*****	
50	16.10	*****	5.26							50	16.10	*****	5.26	*****	***	***	*****	
75	13.55	*****	4.68							75	13.55	*****	4.68	*****	***	***	*****	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100	11.13	*****	5.26							100	11.13	*****	5.26	*****	***	***	*****
125	9.90	*****	5.85							125	9.90	*****	5.85	*****	***	***	*****
150	8.24	*****	6.24							150	8.24	*****	6.24	*****	***	***	*****
200	6.65	*****	5.56							200	6.65	*****	5.56	*****	***	***	*****
250	2.93	*****	5.75							250	2.93	*****	5.75	*****	***	***	*****
300	1.18	*****	5.36							300	1.18	*****	5.36	*****	***	***	*****
400	.53	*****	5.26							400	.53	*****	5.26	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, AUG.12.1980, 01.00 YST, DEPTH 2325 , COLOR , TRANS. ,

WAVE	SWELL	1, WIND NE	4, BARO 1006.5, AIR TEMP. DRY	22.0, WET	0	CLOUD. TYPE	AMT	WEATHER EC,					
0	22.89	*****	5.17		0	22.89	*****	5.17	*****	***	***	***	.0000
10	22.01	*****	5.07		10	22.01	*****	5.07	*****	***	***	***	*****
20	21.38	*****	5.46		20	21.38	*****	5.46	*****	***	***	***	*****
30	19.70	*****	5.65		30	19.70	*****	5.65	*****	***	***	***	*****
50	14.89	*****	5.75		50	14.89	*****	5.75	*****	***	***	***	*****
75	11.06	*****	6.24		75	11.06	*****	6.24	*****	***	***	***	*****
100	8.54	*****	5.85		100	8.54	*****	5.85	*****	***	***	***	*****
125	7.37	*****	5.75		125	7.37	*****	5.75	*****	***	***	***	*****
150	6.70	*****	5.56		150	6.70	*****	5.56	*****	***	***	***	*****
200	5.27	*****	6.14		200	5.27	*****	6.14	*****	***	***	***	*****
250	3.22	*****	5.46		250	3.22	*****	5.46	*****	***	***	***	*****
300	1.69	*****	5.36		300	1.69	*****	5.36	*****	***	***	***	*****
400	.88	*****	5.76		400	.88	*****	5.76	*****	***	***	***	*****
500	.62	*****	6.04		500	.62	*****	6.04	*****	***	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10월(October)

KOREA ,CHUN MA SAN , STATION 104-04 , 37-03.4. N, 120-28.8. E, OCT.14.1980, 07.30 VST, DEPTH 110 , COLOR 3, TRANS. 17.0,

WAVE 2, SWELL 1, WIND SW 2, BARO 1015. , AIR TEMP. DRY 14.2, WET , CLOUD. TYPE ST, AMT 10, WEATHER C ,

0	21.50	*****	3.70							0	21.50	*****	3.70	*****	***	***	.0000
10	20.95	*****	4.89							10	20.95	*****	4.89	*****	***	***	*****
20	20.72	*****	5.09							20	20.72	*****	5.09	*****	***	***	*****
30	15.70	*****	4.99							30	15.70	*****	4.99	*****	***	***	*****
50	14.52	*****	4.89							50	14.52	*****	4.89	*****	***	***	*****
75	5.48	*****	4.99							75	5.48	*****	4.99	*****	***	***	*****
100	3.72	*****	4.70							100	3.72	*****	4.70	*****	***	***	*****

KORFA ,CHUN MA SAN , STATION 104-05 , 37-03.4. N, 120-33.6. E, OCT.16.1980, 09.00 VST, DEPTH 220 , COLOR 3, TRANS. 18.0,

WAVE 2, SWELL 1, WIND SW 2, BARO 1013. , AIR TEMP. DRY 14.5, WET , CLOUD. TYPE ST, AMT 10, WEATHER C ,

0	20.87	*****	4.80							0	20.87	*****	4.80	*****	***	***	.0000
10	21.08	*****	5.09							10	21.08	*****	5.09	*****	***	***	*****
20	20.08	*****	4.99							20	20.08	*****	4.99	*****	***	***	*****
30	19.83	*****	4.70							30	19.83	*****	4.70	*****	***	***	*****
50	15.72	*****	4.60							50	15.72	*****	4.60	*****	***	***	*****
75	11.10	*****	4.79							75	11.19	*****	4.79	*****	***	***	*****
100	6.19	*****	4.89							100	6.19	*****	4.89	*****	***	***	*****
125	4.43	*****	4.99							125	4.43	*****	4.99	*****	***	***	*****
150	3.29	*****	4.89							150	3.29	*****	4.89	*****	***	***	*****
200	1.65	*****	4.79							200	1.65	*****	4.79	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA , CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, OCT.16.1980, 11.00 KST, DEPTH 600 , COLOR 3, TRAYS. 20.6,

WAVE 2, SWELL 1, WIND SE 2, BARO 1013. , AIR TEMP. DRY 16.2, WET . , CLOUD. TYPE #S, AMT 9, WEATHEF C ,

0	20.58	*****	4.70							0	20.58	*****	-7.0	*****	***	***	.0000
10	20.73	*****	5.09							10	20.73	*****	5.09	*****	***	***	*****
20	20.76	*****	5.89							20	20.76	*****	5.89	*****	***	***	*****
30	20.57	*****	4.99							30	20.57	*****	4.99	*****	***	***	*****
50	16.59	*****	4.79							50	16.59	*****	4.79	*****	***	***	*****
75	15.44	*****	4.89							75	15.44	*****	4.89	*****	***	***	*****
100	12.78	*****	4.99							100	12.78	*****	4.99	*****	***	***	*****
125	9.39	*****	5.09							125	9.39	*****	5.09	*****	***	***	*****
150	6.28	*****	4.79							150	6.28	*****	4.79	*****	***	***	*****
200	3.20	*****	4.60							200	3.29	*****	4.60	*****	***	***	*****
250	2.95	*****	4.40							250	2.95	*****	4.40	*****	***	***	*****
300	2.49	*****	4.79							300	2.49	*****	4.79	*****	***	***	*****
400	1.02	*****	4.80							400	1.02	*****	4.80	*****	***	***	*****
500	.52	*****	4.99							500	.52	*****	4.99	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, OCT.16.1980, 13.00 KST, DEPTH 1050 , COLOR 3, TRAYS. 21.0,

WAVE 2, SWELL 1, WIND SE 2, BARO 1013. , AIR TEMP. DRY 16.5, WET . , CLOUD. TYPE ST, AMT 10, WEATHER C ,

0	20.67	*****	4.99							0	20.67	*****	4.99	*****	***	***	.0000
10	20.49	*****	5.09							10	20.49	*****	5.09	*****	***	***	*****
20	20.55	*****	4.89							20	20.55	*****	4.89	*****	***	***	*****
30	20.50	*****	4.79							30	20.50	*****	4.79	*****	***	***	*****
50	17.14	*****	4.00							50	17.14	*****	4.60	*****	***	***	*****
75	14.38	*****	4.09							75	14.38	*****	4.99	*****	***	***	*****

OBSERVED									INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	11.17	*****	5.09						100	11.17	*****	5.09	*****	***	***	*****
125	10.50	*****	5.18						125	10.50	*****	5.18	*****	***	***	*****
150	9.65	*****	4.89						150	9.65	*****	4.89	*****	***	***	*****
200	4.90	*****	4.60						200	4.90	*****	4.60	*****	***	***	*****
250	2.78	*****	4.79						250	2.78	*****	4.79	*****	***	***	*****
300	1.85	*****	4.89						300	1.85	*****	4.89	*****	***	***	*****
400	.79	*****	5.87						400	.79	*****	5.87	*****	***	***	*****
500	.77	*****	4.70						500	.77	*****	4.70	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 104-08 , 37-03.4. N, 130-18.7. E, OCT.16,1980, 16.00 KST, DEPTH 720 , COLOR 3, TPANS. .																
WAVE 2, SWELL 1, WIND SE 2, BARO 1011. , AIR TEMP. DRY 17.0, WET . , CLOUD. TYPE ST, AMT 9, WEATHER C ,																
0	20.40	*****	5.38						0	20.40	*****	5.38	*****	***	***	.0000
10	20.44	*****	5.18						10	20.44	*****	5.18	*****	***	***	*****
20	20.37	*****	5.28						20	20.37	*****	5.28	*****	***	***	*****
30	19.53	*****	5.18						30	19.53	*****	5.18	*****	***	***	*****
50	18.03	*****	4.89						50	18.03	*****	4.89	*****	***	***	*****
75	14.72	*****	4.79						75	14.72	*****	4.79	*****	***	***	*****
100	12.33	*****	4.70						100	12.33	*****	4.70	*****	***	***	*****
125	11.42	*****	4.79						125	11.42	*****	4.79	*****	***	***	*****
150	8.66	*****	4.89						150	8.66	*****	4.89	*****	***	***	*****
200	4.64	*****	4.99						200	4.64	*****	4.99	*****	***	***	*****
250	1.95	*****	4.70						250	1.95	*****	4.70	*****	***	***	*****
300	1.17	*****	4.60						300	1.17	*****	4.60	*****	***	***	*****
400	.40	*****	4.79						400	.40	*****	4.79	*****	***	***	*****
500	.37	*****	4.50						500	.37	*****	4.50	*****	***	***	*****

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

KOREA , CHUN MA SAN , STATION 104-00 , 37-03.4. N, 130-37.6. E, OCT.16.1980, 18.55 KST, DEPTH 2340 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 16.5, WET . , CLOUD. TYPE CU, AMT 9, WEATHER C ,

0	20.58	*****	5.28							0	20.58	*****	5.28	*****	***	***	.0000
10	20.25	*****	5.38							10	20.25	*****	5.38	*****	***	***	*****
20	19.70	*****	4.99							20	19.70	*****	4.99	*****	***	***	*****
30	19.75	*****	4.89							30	19.75	*****	4.89	*****	***	***	*****
50	19.39	*****	5.28							50	19.39	*****	5.28	*****	***	***	*****
75	19.31	*****	4.60							75	19.31	*****	4.60	*****	***	***	*****
100	15.62	*****	5.18							100	15.62	*****	5.18	*****	***	***	*****
125	10.83	*****	5.69							125	10.83	*****	5.69	*****	***	***	*****
150	8.27	*****	4.89							150	8.27	*****	4.89	*****	***	***	*****
200	3.46	*****	4.97							200	3.46	*****	4.97	*****	***	***	*****
250	1.52	*****	4.60							250	1.52	*****	4.60	*****	***	***	*****
300	1.08	*****	4.60							300	1.08	*****	4.60	*****	***	***	*****
400	.47	*****	4.79							400	.47	*****	4.79	*****	***	***	*****
500	.68	*****	4.70							500	.68	*****	4.70	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, OCT.16.1980, 22.00 KST, DEPTH 1800 , COLOR , TRANS. . .

WAVE , SWELL , WIND SW 2, BARO 1011. , AIR TEMP. DRY 16.5, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	20.51	*****	5.18							0	20.51	*****	5.18	*****	***	***	.0000
10	20.44	*****	5.69							10	20.44	*****	5.69	*****	***	***	*****
20	19.82	*****	4.89							20	19.82	*****	4.89	*****	***	***	*****
30	18.44	*****	4.99							30	18.44	*****	4.99	*****	***	***	*****
50	18.00	*****	4.79							50	18.09	*****	4.79	*****	***	***	*****
75	14.85	*****	4.89							75	14.85	*****	4.89	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.62	*****	4.99							100	10.62	*****	4.99	*****	***	***	*****
125	7.74	*****	5.09							125	7.74	*****	5.09	*****	***	***	*****
150	5.66	*****	4.89							150	5.66	*****	4.89	*****	***	***	*****
200	2.13	*****	5.09							200	2.13	*****	5.09	*****	***	***	*****
250	.99	*****	4.89							250	.99	*****	4.89	*****	***	***	*****
300	.59	*****	4.79							300	.59	*****	4.79	*****	***	***	*****
400	.63	*****	4.89							400	.63	*****	4.89	*****	***	***	*****
500	.31	*****	4.40							500	.31	*****	4.40	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 104-11 , 37-03.4. N , 131-45.3. E , OCT.17.1980, 00.40 KST, DEPTH 2325 , COLOR , TRANS. .																	
WAVE , SWELL 1, WIND SE 2, BARO 1011.5, AIR TEMP. DRY 16.6, WET . , CLOUD. TYPE , AMT , WEATHER C ,																	
0	19.18	*****	4.89							0	19.18	*****	4.89	*****	***	***	.0000
10	19.26	*****	5.09							10	19.26	*****	5.09	*****	***	***	*****
20	19.14	*****	4.89							20	19.14	*****	4.89	*****	***	***	*****
30	18.97	*****	4.89							30	18.97	*****	4.89	*****	***	***	*****
50	18.93	*****	4.99							50	18.93	*****	4.99	*****	***	***	*****
75	15.64	*****	4.79							75	15.64	*****	4.79	*****	***	***	*****
100	11.83	*****	5.96							100	11.83	*****	5.96	*****	***	***	*****
125	7.50	*****	5.28							125	7.50	*****	5.28	*****	***	***	*****
150	6.28	*****	4.60							150	6.28	*****	4.60	*****	***	***	*****
200	1.80	*****	4.79							200	1.80	*****	4.79	*****	***	***	*****
250	1.24	*****	4.60							250	1.24	*****	4.60	*****	***	***	*****
300	.77	*****	4.70							300	.77	*****	4.70	*****	***	***	*****
400	.44	*****	4.79							400	.44	*****	4.79	*****	***	***	*****
500	.29	*****	4.70							500	.29	*****	4.70	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	O-T	SVA	D-DY

12월 (December)

KOREA ,CHUN MA SAN , STATION 104-04 , 37-03.4. N, 120-28.8. E, DEC.11.1980, 08.40 KST, DEPTH 110 , COLOR 5, TRANS. 14.5,

WAVE 4, SWELL 1, WIND SW 4, BARO 1008.5, AIR TEMP. DRY 10.5, WET . , CLOUD. TYPE CI, AMT 6, WEATHER FC,																	
0	12.08	*****	5.05							0	12.08	*****	5.05	*****	***	***	.0000
10	12.19	*****	5.24							10	12.19	*****	5.24	*****	***	***	*****
20	12.16	*****	5.34							20	12.16	*****	5.34	*****	***	***	*****
30	12.09	*****	4.86							30	12.09	*****	4.86	*****	***	***	*****
50	9.87	*****	4.77							50	9.87	*****	4.77	*****	***	***	*****
75	6.45	*****	4.86							75	6.45	*****	4.86	*****	***	***	*****
100	3.45	*****	4.67							100	3.45	*****	4.67	*****	***	***	*****

KOREA ,CHUN MA SAN , STATION 104-05 , 37-03.4. N, 120-33.6. E, DEC.16.1980, 09.30 KST, DEPTH 220 , COLOR 4, TRANS. 15.0,

WAVE 3, SWELL 1, WIND NW 2, BARO 1018. , AIR TEMP. DRY 6.5, WET . , CLOUD. TYPE , AMT , WEATHER F ,																	
0	13.29	*****	5.43							0	13.29	*****	5.43	*****	***	***	.0000
10	13.49	*****	5.34							10	13.49	*****	5.34	*****	***	***	*****
20	13.02	*****	5.15							20	13.02	*****	5.15	*****	***	***	*****
30	11.48	*****	5.05							30	11.48	*****	5.05	*****	***	***	*****
50	11.16	*****	4.86							50	11.16	*****	4.86	*****	***	***	*****
75	6.32	*****	4.96							75	6.32	*****	4.96	*****	***	***	*****
100	5.36	*****	4.86							100	5.36	*****	4.86	*****	***	***	*****
125	2.70	*****	4.77							125	2.70	*****	4.77	*****	***	***	*****
150	1.57	*****	4.96							150	1.57	*****	4.96	*****	***	***	*****
200	1.12	*****	4.86							200	1.12	*****	4.86	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, DEC.16.1980, 11.40 KST, DEPTH 600 , COLOR , TRANS. ,																	
WAVE 2, SWELL 2, WIND NW 4, BARO 1018. , AIR TEMP. DRY 4.6, WET . , CLOUD. TYPE , AMT , WEATHER F ,																	
0	12.85	*****	5.62							0	12.85	*****	5.62	*****	***	***	.0000
10	13.00	*****	5.05							10	13.00	*****	5.05	*****	***	***	*****
20	13.02	*****	4.96							20	13.02	*****	4.96	*****	***	***	*****
30	11.48	*****	5.34							30	11.48	*****	5.34	*****	***	***	*****
50	11.20	*****	5.34							50	11.20	*****	5.34	*****	***	***	*****
75	10.23	*****	5.15							75	10.23	*****	5.15	*****	***	***	*****
100	9.16	*****	5.24							100	9.16	*****	5.24	*****	***	***	*****
125	5.20	*****	5.34							125	5.20	*****	5.34	*****	***	***	*****
150	2.89	*****	4.96							150	2.89	*****	4.96	*****	***	***	*****
200	1.34	*****	4.86							200	1.34	*****	4.86	*****	***	***	*****
250	.88	*****	4.86							250	.88	*****	4.86	*****	***	***	*****
300	.69	*****	4.77							300	.69	*****	4.77	*****	***	***	*****
400	.50	*****	4.48							400	.50	*****	4.48	*****	***	***	*****
500	.46	*****	4.77							500	.46	*****	4.77	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, DEC.16.1980, 13.30 KST, DEPTH 1050 , COLOR 4, TRANS. 16.5,																	
WAVE 4, SWELL 1, WIND NW 4, BARO 1019. , AIR TEMP. DRY 8.6, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,																	
0	13.08	*****	5.15							0	13.08	*****	5.15	*****	***	***	.0000
10	13.87	*****	5.43							10	13.87	*****	5.43	*****	***	***	*****
20	13.44	*****	5.34							20	13.44	*****	5.34	*****	***	***	*****
30	12.26	*****	5.15							30	12.26	*****	5.15	*****	***	***	*****
50	11.96	*****	5.05							50	11.96	*****	5.05	*****	***	***	*****
75	10.22	*****	5.15							75	10.22	*****	5.15	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY
100	9.79	*****	5.34							100	9.79	*****	5.34	*****	***	***	*****
125	7.25	*****	5.24							125	7.25	*****	5.24	*****	***	***	*****
150	5.14	*****	5.15							150	5.14	*****	5.15	*****	***	***	*****
200	2.41	*****	5.05							200	2.41	*****	5.05	*****	***	***	*****
250	1.41	*****	4.96							250	1.41	*****	4.96	*****	***	***	*****
300	1.10	*****	4.96							300	1.10	*****	4.96	*****	***	***	*****
400	.84	*****	4.86							400	.84	*****	4.86	*****	***	***	*****
500	.76	*****	4.77							500	.76	*****	4.77	*****	***	***	*****
KOREA , CHUN MA SAN , STATION 194-08 , 37-03.4, N, 130-18.7, E, DEC.16,1980, 16.30 WEST, DEPTH 720 , CIND 4, TRANS. 13.0,																	
WAVE	4, SWELL	1, WIND NW	4, BARO 1019. , AIR TEMP. DRY	3.6, WET	0 13.43	*****	5.05	*****	5.05	*****	5.05	*****	5.05	*****	***	***	.0000
0	13.43	*****	5.05							0	13.43	*****	5.05	*****	***	***	*****
10	14.17	*****	5.15							10	14.17	*****	5.15	*****	***	***	*****
20	14.25	*****	5.72							20	14.25	*****	5.72	*****	***	***	*****
30	14.05	*****	5.81							30	14.05	*****	5.81	*****	***	***	*****
50	13.01	*****	4.96							50	13.01	*****	4.96	*****	***	***	*****
75	12.89	*****	5.05							75	12.89	*****	5.05	*****	***	***	*****
100	11.30	*****	5.43							100	11.30	*****	5.43	*****	***	***	*****
125	9.12	*****	4.86							125	9.12	*****	4.86	*****	***	***	*****
150	7.06	*****	4.96							150	7.06	*****	4.96	*****	***	***	*****
200	4.13	*****	4.86							200	4.13	*****	4.86	*****	***	***	*****
250	2.07	*****	4.77							250	2.07	*****	4.77	*****	***	***	*****
300	1.12	*****	5.05							300	1.12	*****	5.05	*****	***	***	*****
400	.83	*****	5.15							400	.83	*****	5.15	*****	***	***	*****
500	.60	*****	4.77							500	.60	*****	4.77	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 104-09 , 37-03.4. N, 130-37.6. E, DEC.16.1980, 18.50 KST, DEPTH 2340 , COLOR , T-PANS. .																	
WAVE	3, SWELL	1, WIND HW	4, BARO 1019.5, AIR TEMP. DRY	7.7, WET													
0	13.59	*****	5.05							0	13.59	*****	5.05	*****	***	***	.0000
10	14.36	*****	5.43							10	14.36	*****	5.43	*****	***	***	*****
20	14.66	*****	5.34							20	14.66	*****	5.34	*****	***	***	*****
30	14.57	*****	5.34							30	14.57	*****	5.34	*****	***	***	*****
50	14.46	*****	5.15							50	14.46	*****	5.15	*****	***	***	*****
75	12.70	*****	5.05							75	12.70	*****	5.05	*****	***	***	*****
100	10.45	*****	4.86							100	10.45	*****	4.86	*****	***	***	*****
125	9.85	*****	4.77							125	9.85	*****	4.77	*****	***	***	*****
150	7.18	*****	4.96							150	7.18	*****	4.96	*****	***	***	*****
200	5.67	*****	5.05							200	5.67	*****	5.05	*****	***	***	*****
250	2.26	*****	4.86							250	2.26	*****	4.86	*****	***	***	*****
300	1.79	*****	4.77							300	1.79	*****	4.77	*****	***	***	*****
400	.92	*****	4.96							400	.92	*****	4.96	*****	***	***	*****
500	.76	*****	4.77							500	.76	*****	4.77	*****	***	***	*****
KOREA ,CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, DEC.16.1980, 21.40 KST, DEPTH 1800 , COLOR , T-PANS. .																	
WAVE	2, SWELL	1, WIND SW	3, BARO 1019. , AIR TEMP. DRY	6.2, WET													
0	13.96	*****	4.67							0	13.96	*****	4.67	*****	***	***	.0000
10	14.22	*****	5.43							10	14.22	*****	5.43	*****	***	***	*****
20	14.67	*****	5.34							20	14.67	*****	5.34	*****	***	***	*****
30	14.52	*****	5.43							30	14.52	*****	5.43	*****	***	***	*****
50	13.82	*****	5.24							50	13.82	*****	5.24	*****	***	***	*****
75	13.19	*****	5.05							75	13.19	*****	5.05	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	9.85	*****	5.05							100	9.85	*****	5.05	*****	***	***	*****
125	9.26	*****	5.15							125	9.26	*****	5.15	*****	***	***	*****
150	5.26	*****	4.96							150	5.26	*****	4.96	*****	***	***	*****
200	3.10	*****	4.86							200	3.10	*****	4.86	*****	***	***	*****
250	1.82	*****	4.86							250	1.82	*****	4.86	*****	***	***	*****
300	1.14	*****	4.96							300	1.14	*****	4.96	*****	***	***	*****
400	.76	*****	4.77							400	.76	*****	4.77	*****	***	***	*****
500	.60	*****	4.77							500	.60	*****	4.77	*****	***	***	*****

KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N , 131-15.3. E, DEC.17.1980, 03.40 KST, DEPTH 2325 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND SE 2, BARO 1019. , AIR TEMP. DRY 6.0, WET 0 13.81 , CLOUD. TYPE , AMT , WEATHER P ,
 0 13.81 ***** 4.86 0 13.81 ***** 4.86 ***** *** *** .0000
 10 14.03 ***** 5.05 10 14.06 ***** 5.05 ***** *** ***
 20 14.00 ***** 5.34 20 14.00 ***** 5.34 ***** *** ***
 30 13.84 ***** 5.24 30 13.84 ***** 5.24 ***** *** ***
 50 13.56 ***** 5.34 50 13.56 ***** 5.34 ***** *** ***
 75 12.95 ***** 5.43 75 12.95 ***** 5.43 ***** *** ***
 100 9.44 ***** 5.05 100 9.44 ***** 5.05 ***** *** ***
 125 7.19 ***** 5.15 125 7.19 ***** 5.15 ***** *** ***
 150 4.95 ***** 5.34 150 4.95 ***** 5.34 ***** *** ***
 200 3.75 ***** 5.05 200 3.75 ***** 5.05 ***** *** ***
 250 1.94 ***** 5.15 250 1.94 ***** 5.15 ***** *** ***
 300 1.55 ***** 4.96 300 1.35 ***** 4.96 ***** *** ***
 400 .92 ***** 4.86 400 .82 ***** 4.86 ***** *** ***
 500 .67 ***** 4.67 500 .67 ***** 4.67 ***** *** ***

103선 해양관측성적

Oceanographic Data. Line 103

OBSERVED						INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2

2월(February)

KOREA , JI PI SAN , STATION 103-04 , 36-30.3° N, 129-30.1° E, FEB. 5, 1960, 13.00 YST, DEPTH 110 , COLOR 2, TRANSP. 12.0.

WAVE 2, SWELL 2, WIND HW 4, BARO 1022. , AIR TEMP. DRY 10.6, WET . , CLOUD. TYPE CU, AMT 6, WEATHER FC,

0	8.91	34.180	6.64	0	8.91	34.180	6.64	26.51	153	153	.0000
10	9.70	34.300	6.59	10	9.70	34.300	6.59	26.48	156	156	.0155
20	10.02	34.340	6.54	20	10.02	34.340	6.54	26.45	158	158	.0313
30	10.15	34.260	6.64	30	10.15	34.260	6.64	26.37	166	167	.0476
50	10.12	34.180	6.54	50	10.12	34.180	6.54	26.31	172	173	.0816
75	10.05	34.150	6.60	75	10.05	34.150	6.60	26.30	173	174	.1250
100	10.01	34.180	6.54	100	10.01	34.180	6.54	26.23	170	172	.1684

KOREA , JI PI SAN , STATION 103-05 , 36-30.3° N, 129-35.4° E, FEB. 10, 1960, 10.30 YST, DEPTH 205 , COLOR 2, TRANSP. 8.0.

WAVE 2, SWELL 2, WIND W 3, BARO 1026. , AIR TEMP. DRY 4.1, WET . , CLOUD. TYPE CU, AMT 7, WEATHER BC,

0	9.21	34.500	6.64	0	9.21	34.500	6.64	26.71	134	173	.0000
10	9.09	34.490	6.87	10	9.99	34.490	6.87	26.58	147	147	.0141
20	10.09	34.430	6.44	20	10.09	34.430	6.44	26.51	153	153	.0291
30	10.15	34.450	6.47	30	10.15	34.450	6.47	26.52	152	153	.0444
50	10.10	34.430	6.55	50	10.10	34.430	6.55	26.51	153	154	.0752
75	10.10	34.570	6.46	75	10.10	34.570	6.46	26.62	143	144	.1125
100	9.85	34.470	6.34	100	9.85	34.470	6.34	26.58	146	148	.1491
125	7.48	34.300	5.99	125	7.48	34.300	5.99	26.62	123	125	.1833
150	4.30	34.170	5.84	150	4.30	34.170	5.84	27.12	95	97	.2111
200	7.21	34.130	5.88	200	3.21	34.130	5.88	27.19	85	89	.2578

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI FI SANH , STATION 103-06 , 36-30.3. N, 120-47.3. E, FEB.10.1980, 12.00 VST, DEPTH 235 , COLOR 2, TRANSP. 7.0,																	
WAVE 1, SWELL 1, WIND SW 3, BARO 1026. , AIR TEMP. DRY 4.0, WET , CLOUD. TYPE CU, AMT 9, WEATHER C ,																	
0	9.50	34.420	7.20							0	9.50	34.420	7.20	26.60	144	144	.0000
10	9.55	34.570	7.02							10	9.55	34.570	7.02	26.71	134	174	.0139
20	10.52	34.460	7.01							20	10.52	34.460	7.01	26.46	158	158	.0286
30	10.48	34.430	7.00							30	10.48	34.430	7.00	26.44	159	160	.0445
50	10.45	34.510	6.62							50	10.45	34.510	6.62	26.51	153	154	.0759
75	10.28	34.450	6.64							75	10.28	34.450	6.64	26.49	154	156	.1147
100	10.15	34.350	6.54							100	10.15	34.350	6.54	26.44	160	162	.1545
125	9.30	34.290	6.44							125	8.30	34.290	6.44	26.69	136	138	.1920
150	5.00	34.130	5.76							150	5.00	34.130	5.76	27.01	106	107	.2227
200	2.93	34.020	5.74							200	2.93	34.020	5.74	27.13	94	95	.2734
230	2.20	34.040	5.96														
KOREA , JI FI SANH , STATION 103-07 , 36-30.3. N, 130-00.0. E, FEB.10.1980, 13.30 VST, DEPTH 850 , COLOR 2, TRANSP. 7.0,																	
WAVE 1, SWELL 1, WIND SW 3, BARO 1024.5, AIR TEMP. DRY 4.5, WET , CLOUD. TYPE CU, AMT 8, WEATHER C ,																	
0	11.00	34.490	6.14							0	11.00	34.490	6.14	26.40	164	163	.0000
10	11.18	34.460	6.38							10	11.18	34.460	6.38	26.34	169	169	.0157
20	11.05	34.470	6.39							20	11.05	34.470	6.39	26.37	166	166	.0335
30	11.00	34.470	6.34							30	11.00	34.470	6.34	26.38	165	165	.0501
50	11.00	34.460	6.62							50	11.00	34.460	6.62	26.37	166	167	.0834
75	10.90	34.470	6.42							75	10.90	34.470	6.42	26.40	163	165	.1249
100	10.56	34.450	6.28							100	10.56	34.450	6.28	26.45	159	161	.1658
125	8.20	34.310	6.22							125	8.20	34.310	6.22	26.72	133	135	.2028
150	5.56	34.130	5.78							150	5.56	34.130	5.78	26.94	112	114	.2360

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D-DY
200	3.81	34.090	5.92							200	3.91	34.090	5.92	27.10	97	.2871
250	1.90	34.070	5.96							250	1.90	34.030	5.96	27.22	85	.3333
300	1.54	34.020	6.09							300	1.54	34.020	6.09	27.24	83	.3759
400	.93	34.020	5.84							400	.93	34.020	5.84	27.28	80	.4582
500	.78	33.980	5.99							500	.78	33.980	5.99	27.26	82	.5373
KOREA , JI PI SAN , STATION 103-09 , 36-30.3. N, 130-18.6. E, FEB.10.1980, 15.50 KST, DEPTH 198 , COLDR 2, TPANS. 8.0.																
WAVE 1, SWELL 1, WIND SW 3, EARO 1024. , AIP TEMP. DRY 5.2, WET . , CLOUD. TYPE CU, AM 7, WEATHER EC,																
0	10.96	34.400	6.90							0	10.96	34.400	6.90	26.74	170	.0000
10	10.08	34.520	7.01							10	10.08	34.520	7.01	26.58	146	.0158
20	11.06	34.430	7.05							20	11.06	34.430	7.05	26.34	169	.0316
30	10.96	*****	6.16							30	10.96	*****	6.16	*****	***	*****
50	11.00	34.430	6.35							50	11.00	34.430	6.35	26.35	168	.169
75	10.85	34.390	6.29							75	10.85	34.390	6.29	26.35	166	.170
100	10.76	34.440	6.24							100	10.76	34.440	6.24	26.40	163	.165
125	10.65	34.390	5.79							125	10.65	34.390	5.79	26.38	165	.167
150	7.75	34.320	6.05							150	7.35	34.320	6.05	26.46	120	.122
195	4.87	34.260	5.91													*****
KOREA , JI PI SAN , STATION 103-09 , 36-30.3. N, 130-17.3. E, FEB.10.1980, 16.10 KST, DEPTH 2150 , COLOR , TPANS. . ,																
WAVE 1, SWELL 1, WIND SW 3, EARO 1024. , AIP TEMP. DRY 5.0, WET . , CLOUD. TYPE . , AMT 4, WEATHER EC,																
0	10.50	34.460	6.59							0	10.50	34.460	6.59	26.46	157	.0000
10	10.71	34.420	6.24							10	10.71	34.420	6.24	26.40	164	.0161
20	10.82	34.460	6.34							20	10.82	34.460	6.34	26.41	163	.0325
30	10.92	34.460	6.51							30	10.82	34.460	6.51	26.41	163	.0488

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	10.79	34.420	6.54							50	10.79	34.420	6.54	26.38	165	166	.0818
75	11.05	34.520	6.31							75	11.05	34.520	6.21	26.41	162	164	.1232
100	10.92	34.560	6.13							100	10.92	34.560	6.13	26.47	157	159	.1526
125	10.83	34.510	6.04							125	10.83	34.510	6.04	26.44	159	162	.2038
150	5.70	34.400	5.66							150	5.70	34.400	5.66	27.14	93	95	.2360
200	4.96	34.380	5.64							200	4.96	34.380	5.64	27.21	27	28	.2822
250	2.35	34.250	5.47							250	2.35	34.250	5.47	27.37	72	73	.3227
300	1.17	34.200	5.64							300	1.17	34.200	5.64	27.41	67	68	.3581
400	.98	34.200	5.47							400	.98	34.200	5.47	27.43	66	66	.4256
500	.81	34.220	5.54							500	.81	34.220	5.54	27.45	64	64	.4912

KOREA, JI PI SANH, STATION 103-10, 36-30.3. N, 130-55.6. E, FEB. 10, 1960, 20.30 YST, DEPTH 1800, COLOR, TRANS. . .

WAVE 2, SNEEL 2, WIND SW 3, BARO 1024.5, AIR TEMP. DRY 4.7, WET . ., CLOUD. TYPE, AMT, WEATHER, . .

0	11.00	34.470	6.80							0	11.00	34.470	6.80	26.38	165	165	.0000
10	11.04	34.490	6.80							10	11.04	34.490	6.80	26.39	164	164	.0155
20	11.10	34.480	6.69							20	11.10	34.480	6.69	26.37	166	166	.0331
30	11.10	34.560	6.42							30	11.10	34.560	6.42	26.43	160	161	.0495
50	10.79	34.430	6.43							50	10.79	34.430	6.43	26.39	164	165	.0821
75	10.37	34.420	6.36							75	10.37	34.420	6.36	26.46	158	159	.1228
100	10.25	34.520	6.54							100	10.25	34.520	6.54	26.55	149	151	.1617
125	10.27	34.420	6.24							125	10.27	34.420	6.24	26.47	157	150	.2005
150	9.38	34.420	*****							150	9.38	34.420	*****	26.62	142	145	.2386
200	8.71	34.410	6.44							200	8.71	34.410	6.44	26.72	133	136	.3092

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA

250	4.99	34.230	6.14							250	4.99	34.230	6.14	27.09	98	101
300	2.12	34.210	6.34							300	2.12	34.210	6.34	27.35	73	74
400	1.13	34.090	5.89							400	1.13	34.090	5.89	27.33	75	76
500	.82	34.180	5.89							500	.82	34.180	5.89	27.42	67	67

KOREA , JI RI SANH , STATION 103-11 , 36-30.3. N. , 131-16.0. E. , FEB.10.1980. , 22.50 KST. , DEPTH 2100 , COLOR , TPANS. . .

WAVE	2. SWELL	3. WIND SW	4. BARO 1024. , AIR TEMP. DRY	4.1. WET	. , CLOUD. TYPE	, AMT	, WEATHER									
0	8.99	34.410	7.15		0	8.99	34.410	7.15	26.68	137	137	137	137	137	137	.0000
10	9.19	34.350	6.79		10	9.19	34.350	6.79	26.60	145	145	144	144	144	144	.0161
20	9.21	34.400	6.78		20	9.21	34.400	6.78	26.63	141	141	141	141	141	141	.0284
30	9.25	34.300	6.67		30	9.25	34.300	6.67	26.55	149	149	149	149	149	149	.0430
50	8.85	34.270	6.68		50	8.85	34.270	6.68	26.59	145	145	146	146	146	146	.0727
75	7.81	34.240	6.76		75	7.81	34.240	6.76	26.73	132	132	133	133	133	133	.1077
100	7.84	*****	6.67		100	7.84	*****	6.67	*****	***	***	***	***	***	***	*****
125	7.99	34.230	6.34		125	7.99	34.230	6.34	26.69	136	136	138	138	138	138	*****
150	6.68	34.150	6.04		150	6.68	34.150	6.04	26.81	124	124	126	126	126	126	*****
200	3.94	34.090	6.05		200	3.94	34.090	6.05	27.09	98	98	99	99	99	99	*****
250	2.25	34.040	5.82		250	2.25	34.040	5.82	27.21	87	87	88	88	88	88	*****
300	2.09	34.050	5.61		300	2.09	34.050	5.61	27.23	85	85	86	86	86	86	*****
400	.69	34.060	5.44		400	.69	34.060	5.44	27.33	75	75	75	75	75	75	*****
500	.59	34.040	5.45		500	.59	34.040	5.45	27.32	76	76	76	76	76	76	*****

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

4 월(April)

KOREA JI FI SAN , STATION 103-04 , 36-30.3. N, 120-30.1. E, APR. 22. 1980, 15.00 PST, DEPTH 110 = COLOR 4, TRANS. 12.0,																	
WAVE 1, SWELL 1, WIND NW 2, EARD 1016. , AIP TEMP. DRY 17.5, WFT , CLOUD. TYPE CI, AMT 6, WEATHER FC,																	
0	11.35	34.380	6.44							0	11.35	34.380	6.44	26.25	178	177	.0000
10	10.27	34.340	6.44							10	10.27	34.340	6.44	26.41	162	162	.0170
20	8.80	34.320	6.02							20	8.80	34.320	6.02	26.64	141	141	.0323
30	4.92	34.210	5.94							30	4.92	34.210	5.94	27.08	99	99	.0443
50	2.95	34.100	5.74							50	2.95	34.100	5.74	27.19	88	88	.0531
75	1.73	34.060	5.54							75	1.73	34.060	5.54	27.26	82	82	.0544
100	1.13	34.030	5.14							100	1.13	34.030	5.14	27.28	80	80	.1047

KOREA JI FI SAN , STATION 103-05 , 36-30.3. N, 120-35.4. E, APR. 22. 1980, 13.55 PST, DEPTH 205 , COLOR 4, TRANS. 14.0,																	
WAVE 1, SWELL 1, WIND NW 2, EARD 1016. , AIP TEMP. DRY 17.5, WET , CLOUD. TYPE CI, AMT 5, WEATHER FC,																	
0	12.33	34.480	6.84							0	12.33	34.480	6.84	25.94	207	207	.0000
10	12.13	34.460	6.54							10	12.13	34.480	6.54	25.98	203	203	.0205
20	12.90	34.470	6.59							20	12.90	34.470	6.59	26.02	199	200	.0407
30	12.86	34.460	6.66							30	12.86	34.460	6.66	26.02	199	200	.0507
50	9.60	34.300	6.64							50	9.60	34.300	6.64	26.49	155	155	.0963
75	5.40	34.300	6.64							75	5.40	34.300	6.64	27.10	97	98	.1281
100	3.02	34.250	6.45							100	3.02	34.250	6.45	27.31	77	78	.1502
125	2.05	34.200	5.79							125	2.05	34.200	5.79	27.35	73	74	.1693
150	1.50	34.070	5.89							150	1.50	34.070	5.89	27.29	79	79	.1885
200	.95	34.040	5.59							200	.95	34.040	5.59	27.30	79	78	.2281

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KORFA , STATION 103-04 , 36-30.7. N, 120-47.3. E, APR.22.1960, 12.20 WET, DEPTH 235 , COLOR 7, TRANSP. 15.0.																		
WAVE 1, SWELL 1, WIND NW 2, EARD 1016. , AIP TEMP. DRY 17.0, WET . , CLOUD. TYPE CI, AMT 3, WEATHER FC,																		
0	14.13	34.560	6.66							0	14.13	34.560	6.66	25.84	217	216	.0500	
10	14.11	34.540	6.84							10	14.11	34.540	6.84	25.83	218	218	.0218	
20	14.05	34.570	6.54							20	14.05	34.570	6.54	25.86	214	215	.0434	
30	14.00	34.560	6.44							30	14.00	34.560	6.44	25.87	214	215	.0549	
50	13.45	34.580	6.54							50	13.45	34.580	6.54	26.00	202	203	.1068	
75	11.77	34.530	6.84							75	11.77	34.530	6.84	26.29	174	176	.1542	
100	9.63	34.430	6.89							100	9.63	34.430	6.89	26.59	145	147	.1947	
125	8.36	34.350	6.82							125	8.36	34.350	6.82	26.73	122	134	.2300	
150	3.85	34.140	5.79							150	3.85	34.140	5.79	27.14	93	94	.2586	
200	1.94	34.050	5.89							200	1.94	34.050	5.89	27.24	84	84	.3035	
230	.80	34.050	5.42															
KOREA , STATION 103-07 , 36-30.7. N, 130-00.0. E, APR.22.1960, 10.40 VST, DEPTH 850 , COLOR 3, TRANSP. 15.0.																		
WAVE 1, SWELL 1, WIND NW 3, EARD 1016. , AIP TEMP. DRY 15.0, WET . , CLOUD. TYPE . , AMT , WEATHER F ,																		
0	12.90	34.540	6.24							0	12.90	34.540	6.24	26.08	194	194	.0000	
10	12.85	34.590	6.43							10	12.85	34.590	6.43	26.12	190	190	.0192	
20	12.85	34.540	6.23							20	12.85	34.540	6.23	26.09	193	193	.0384	
30	12.82	34.540	6.34							30	12.82	34.540	6.34	26.09	193	193	.0578	
50	12.06	34.510	6.04							50	12.06	34.510	6.04	26.22	181	182	.0954	
75	11.01	34.510	6.53							75	11.01	34.510	6.53	26.41	162	164	.1387	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.10	34.430	6.54							100	10.10	34.430	6.54	26.51	153	155	.1786
125	9.20	34.410	*****							125	9.20	34.410	*****	26.64	140	142	.2159
150	8.02	34.330	6.49							150	8.02	34.330	6.49	26.77	129	131	.2502
200	5.17	34.200	5.72							200	5.17	34.200	5.72	27.04	102	104	.3083
250	2.18	34.070	5.74							250	2.18	34.070	5.74	27.24	84	85	.3568
300	1.00	34.070	5.24							300	1.00	34.070	5.24	27.32	76	76	.3974
400	.62	34.070	5.59							400	.62	34.070	5.59	27.34	74	74	.4729
500	.56	34.050	5.14							500	.56	34.050	5.14	27.33	75	75	.5477

KOREA , JI PI SAN , STATION 103-08 , 36-30.3. W, 130-18.6. E, APR.22.1960, 06.40 KST, DEPTH 198 , COLOR 3, TRANS. 15.0.

WAVE 3, SWELL 3, WIND NW 5, EARR 1015. , AIR TEMP. DRY 11.5, WET , CLOUD. TYPE , AMT , WEATHER F ,

0	12.01	34.470	6.84							0	12.01	34.470	6.84	26.19	183	183	.0000
10	12.05	34.470	6.54							10	12.05	34.470	6.54	26.19	184	184	.0184
20	11.99	34.490	6.34							20	11.99	34.490	6.34	26.21	181	181	.0366
30	11.99	34.550	6.46							30	11.99	34.550	6.46	26.26	177	177	.0546
50	10.99	34.560	6.84							50	10.99	34.560	6.84	26.45	158	159	.0883
75	9.31	34.530	6.52							75	9.31	34.530	6.52	26.72	133	134	.1251
100	8.85	34.530	6.54							100	8.85	34.530	6.54	26.79	126	128	.1580
125	7.49	34.520	6.55							125	7.49	34.520	6.55	26.99	107	109	.1877
150	6.37	34.510	6.42							150	6.37	34.510	6.42	27.14	93	95	.2133
195	3.29	34.500	6.44														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SANH , STATION 103-09 , 36-30.3. N, 130-37.3. E, APR.22.1980, 06.30 KST, DEPTH 2150 , COLOR , TFANS. . .																	
WAVE 3, SWELL 3, WIND NW 6, BARO 1014. , AIR TEMP. DRY 12.7, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	12.58	34.560	6.24							0	12.58	34.560	6.24	26.15	187	186	.0000
10	12.70	34.560	6.39							10	12.70	34.560	6.39	26.13	189	186	.0188
20	12.67	34.570	6.24							20	12.67	34.570	6.24	26.14	188	188	.0377
30	12.53	34.560	6.25							30	12.53	34.560	6.25	26.16	186	186	.0555
50	12.32	34.500	6.14							50	12.32	34.500	6.14	26.16	186	187	.0939
75	10.28	34.450	6.10							75	10.28	34.450	6.10	26.49	154	156	.1369
100	9.67	34.490	6.15							100	9.67	34.490	6.15	26.63	142	143	.1744
125	9.62	34.400	6.44							125	9.62	34.490	6.44	26.64	141	143	.2104
150	9.50	34.440	6.69							150	9.50	34.440	6.69	26.62	143	145	.2465
200	6.68	34.460	6.33							200	6.68	34.460	6.33	27.06	101	104	.3090
250	1.55	34.400	6.04							250	1.55	34.400	6.04	27.55	55	55	.3430
300	1.02	34.340	6.19							300	1.02	34.340	6.19	27.54	56	56	.3770
400	.70	34.300	****							400	.70	34.300	****	27.60	50	50	.4305
500	.64	34.430	****							500	.64	34.430	****	27.63	47	47	.4794
KOREA , JI PI SANH , STATION 103-10 , 36-30.3. N, 130-55.6. E, APR.22.1980, 04.20 KST, DEPTH 1800 , COLOR , TFANS. . .																	
WAVE 3, SWELL 3, WIND NW 6, BARO 1013. , AIR TEMP. DRY 12.7, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	13.34	34.560	6.29							0	13.34	34.560	6.29	26.00	201	201	.0030
10	13.40	34.520	6.39							10	13.40	34.520	6.39	25.96	205	205	.0204
20	13.20	34.530	6.52							20	13.20	34.530	6.52	26.01	201	201	.0407
30	12.39	34.580	6.32							30	12.39	34.580	6.32	26.21	182	182	.0599
50	12.30	34.570	6.29							50	12.30	34.570	6.29	26.22	181	182	.0954
75	9.90	34.460	6.42							75	9.90	34.460	6.42	26.57	148	149	.1378

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100	9.52	34.360	6.25							100	9.52	34.360	6.25	26.55	149	151	.1754
125	9.42	34.520	6.44							125	9.42	34.520	6.44	26.69	135	138	.2115
150	9.27	34.470	6.16							150	9.27	34.470	6.16	26.68	137	139	.2453
200	5.99	34.490	6.39							200	5.99	34.490	6.39	27.17	90	98	.3046
250	3.54	34.410	6.14							250	3.54	34.410	6.14	27.39	70	72	.3459
300	1.07	34.370	5.91							300	1.07	34.370	5.91	27.56	54	54	.3775
400	.65	34.370	5.94							400	.65	34.370	5.94	27.58	51	51	.4307
500	.44	34.460	5.83							500	.44	34.460	5.83	27.67	43	43	.4784

KOREA , JI CI SAN , STATION 103-11 , 36-30.7° N, 131-14.0° E, APR. 22, 1980, 06.10 YCT, DEPTH 2100 , COLOR , WEATHER , , TRANS. ,

WAVE	3, SWELL	3, WIND NW	5, EARG 1012	5, AIR TEMP. DRY	12.6, WET												
0	12.10	34.470	6.29			0	12.10	34.470	6.29	26.18	185	184	.0000				
10	12.70	34.400	6.82			10	12.70	34.400	6.82	26.01	201	201	.0193				
20	11.70	34.380	6.66			20	11.70	34.380	6.66	26.18	184	184	.0386				
30	11.61	34.320	6.24			30	11.61	34.320	6.24	26.15	187	187	.0572				
50	10.53	34.240	6.19			50	10.53	34.220	6.19	26.27	176	176	.0976				
75	10.40	34.230	6.74			75	10.40	34.230	6.74	26.30	173	174	.1376				
100	9.30	34.080	6.54			100	9.30	34.080	6.54	26.37	166	168	.1804				
125	9.19	34.450	6.57			125	9.19	34.450	6.57	26.68	137	139	.2189				
150	8.51	34.510	6.64			150	8.51	34.510	6.64	26.83	122	125	.2521				
200	7.20	34.500	6.74			200	7.20	34.500	6.74	27.02	105	108	.3104				
250	4.04	34.520	6.44			250	4.04	34.520	6.44	27.42	66	68	.3547				
300	2.20	34.520	6.20			300	2.20	34.520	6.20	27.59	50	51	.3850				
400	.81	34.530	5.76			400	.81	34.530	5.76	27.70	40	40	.4313				
500	.70	34.450	5.54			500	.70	34.450	5.54	27.64	45	46	.4748				

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

6 월 (June)

KOREA	J1	FI	SAN	, STATION 103-04, 36-30.7. N, 129-30.1. E, JUN. 9.1980, 17.00 KST, DEPTH 10 , CLOUD 2, TRANS. 10.0,													
WAVE	, SWELL		, WIND SE		2, BARO 1010., AIR TEMP. DRY 20.0, WET ., CLOUD. TYPE , AMT , WEATHER C,												
0	14.49	34.160	6.16							0	14.49	34.160	6.16	25.45	253	253	.0000
10	12.58	34.090	5.78							10	12.58	34.090	5.78	25.79	221	221	.0238
20	7.30	34.130	5.45							20	7.30	34.130	5.45	26.71	134	134	.0416
30	4.07	34.130	5.35							30	4.07	34.130	5.35	27.11	96	96	.0531
50	1.85	34.110	4.98							50	1.85	34.110	4.98	27.29	79	79	.0707
75	1.25	34.100	4.99							75	1.25	34.100	4.99	27.33	75	75	.0900
100	.26	34.060	5.56							100	.26	34.060	5.56	27.36	73	72	.1086

KOREA	J1	PI	SAN	, STATION 103-05, 36-30.2' N, 129-35.4' E, JUN. 9.1980, 18.00 KST, DEPTH 205, COLOR, TRANS.													
WAVE	1, SWELL		1, WIND SE		2, BARO 1010., AIR TEMP. DRY .0, WET ., CLOUD. TYPE NS, AMT 6, WEATHER BC,												
0	17.40	37.830	5.67							0	17.40	33.830	5.67	26.54	340	340	.0000
10	14.86	34.160	5.35							10	14.86	34.160	5.35	25.39	259	259	.0300
20	17.89	34.720	5.62							20	13.89	34.320	5.62	25.70	270	270	.0545
30	10.23	34.370	5.25							30	10.23	34.370	5.25	26.44	160	160	.0740
50	7.49	34.290	4.54							50	7.49	34.290	4.54	26.81	124	125	.1026
75	5.20	34.220	4.95							75	5.20	34.220	4.95	27.06	101	102	.1311
100	2.10	34.080	5.01							100	2.10	34.080	5.01	27.25	83	83	.1543
125	1.63	34.060	5.00							125	1.63	34.060	5.00	27.27	81	81	.1749
150	1.39	34.080	4.90							150	1.39	34.080	4.90	27.30	78	78	.1949
200	.98	34.070	5.21							200	.98	34.070	5.21	27.32	76	76	.2336

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI RI SAN , STATION 103-06 , 36-30.3. N, 120-47.3. E, JUN. 9, 1980, 19.35 MST, DEPTH 235 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND SE 2, EARD 1011. , AIR TEMP. PRV .0, WET . , CLOUD. TYPE , AMT , WEATHER C. ,																	
0	17.09	34.260	5.76							0	17.09	34.280	5.75	24.96	300	300	.0300
10	16.53	34.080	5.45							10	16.53	34.080	5.45	24.94	302	302	.0302
20	16.32	34.140	5.69							20	16.32	34.140	5.69	25.03	293	294	.0600
30	15.89	34.330	5.78							30	15.89	34.330	5.78	25.28	270	271	.0883
50	14.20	34.540	4.75							50	14.20	34.540	4.75	25.81	220	221	.1375
75	13.22	34.470	4.95							75	13.22	34.470	4.95	25.96	205	207	.1911
100	11.54	*****	5.20							100	11.54	*****	5.20	*****	***	***	*****
125	9.55	34.420	5.76							125	9.55	34.420	5.76	26.59	145	147	*****
150	9.24	34.400	5.76							150	8.24	34.400	5.76	26.79	127	129	*****
200	5.65	34.260	5.56							200	5.65	34.260	5.56	27.03	103	106	*****
230	2.25	34.750	5.97														

KOREA , STATION 103-07 , 36-30.3. N, 130-00.0. E, JUN. 9, 1980, 21.05 MST, DEPTH 250 , COLOR , TRANS. , ,																		
WAVE 1, SWELL 1, WIND SE 2, EARD 1011. , AIR TEMP. DRV .0, WET . , CLOUD. TYPE , AMT , WEATHER ,																		
0	16.95	34.320	6.36							0	16.95	34.320	6.36	25.02	294	294	.0000	
10	16.54	34.270	6.01							10	16.54	34.270	6.01	25.08	289	289	.0202	
20	16.00	34.190	5.30							20	16.00	34.190	5.30	25.14	283	283	.0578	
30	15.26	34.100	5.64							30	15.26	34.100	5.64	25.24	274	274	.0857	
50	13.09	34.050	5.60							50	13.09	34.050	5.60	25.66	234	235	.1367	
75	12.01	34.040	5.50							75	12.01	34.040	5.50	25.86	215	216	.1932	

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
100	10.90	34.060	4.70							100	10.90	34.060	4.70	26.08	194	195	.2447	
125	10.25	34.100	5.56							125	10.25	34.100	5.56	26.23	180	182	.2921	
150	9.15	34.120	5.86							150	9.15	34.120	5.86	26.43	161	163	.3354	
200	6.35	34.170	5.81							200	6.35	34.170	5.81	26.87	118	121	.4087	
250	2.45	34.400	5.95							250	2.45	34.400	5.95	27.48	61	62	.4528	
300	1.52	34.460	5.25							300	1.52	34.480	5.25	27.61	48	49	.4809	
400	.85	34.510	5.19							400	.85	34.510	5.19	27.68	42	42	.5270	
500	.62	34.420	5.30							500	.62	34.420	5.30	27.62	47	47	.5722	

KOREA , JI PI SAN , STATION 103-02 , 36-30.3. N, 130-18.6. E, JUN. 9.1980, 23.10 KST, DEPTH 195 , COLOR , TRANS. . .
 WAVE , SWELL 1, WIND SE 2, BARO 1011. , AIR TEMP. DRY .0, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 16.90 34.150 5.35 24.91 305 305 .0000
 10 16.90 ***** 5.35 *****
 20 16.75 34.140 5.86 24.93 303 303 *****
 30 14.85 34.400 5.97 25.56 243 244 *****
 50 13.95 34.390 5.71 25.75 226 227 *****
 75 12.00 34.490 6.16 26.21 181 183 *****
 100 11.95 34.410 6.06 26.16 186 188 *****
 125 10.20 34.430 5.98 26.49 155 157 *****
 150 9.30 34.370 6.09 26.60 145 147 *****
 195 8.20 34.310 6.21

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02 N	N03 N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMAT	D-T	SVA	D-DY
KOREA , STATION 103-00 , 36-30.3. N, 130-17.3. E, JUN. 10, 1980, 01.10 KST, DEPTH 2150 , COLOR , WEATHER ,																	
WAVE	1, WIND SE	3, EARG 1011.5	AIR TEMP. 09V	4.5, WET													
0	16.30	34.370	5.90							0	16.30	34.370	5.90	25.21	276	276	.0000
10	16.10	*****	5.64							10	16.10	*****	5.64	*****	***	***	*****
20	14.97	34.170	5.96							20	14.97	34.170	5.96	25.36	262	263	*****
30	14.59	34.050	5.56							30	14.59	34.050	5.56	25.35	263	264	*****
50	12.48	34.060	5.37							50	12.48	34.060	5.37	25.79	222	223	*****
75	10.40	34.040	5.96							75	10.40	34.040	5.96	26.15	187	188	*****
100	9.20	34.040	5.59							100	9.20	34.040	5.59	26.36	168	169	*****
125	9.18	34.160	6.26							125	9.18	34.180	6.26	26.47	157	159	*****
150	7.06	34.230	6.12							150	7.06	34.230	6.18	26.83	123	125	*****
200	4.50	34.360	6.16							200	4.50	34.360	6.16	27.25	83	85	*****
250	1.60	34.520	6.26							250	1.60	34.520	6.26	27.64	46	46	*****
300	1.00	34.510	5.74							300	1.00	34.510	5.74	27.67	43	43	*****
400	.70	34.450	5.88							400	.70	34.450	5.89	27.64	45	46	*****
500	.61	34.430	6.12							500	.61	34.430	6.12	27.63	46	47	*****
KOREA , STATION 103-10 , 36-30.3. N, 130-15.6. E, JUN. 10, 1980, 03.15 KST, DEPTH 1800 , COLOR , WEATHER ,																	
WAVE	1, WIND SE	3, EARG 1012.5	AIR TEMP. 09V	4.2, WET													
0	17.30	34.390	6.28							0	17.30	34.390	6.28	24.09	297	297	.0000
10	16.20	34.310	5.86							10	16.80	34.310	5.86	25.05	292	292	.0295
20	14.70	34.150	5.94							20	14.70	34.150	5.94	25.40	258	259	.0570
30	14.20	34.050	5.04							30	14.20	34.050	6.04	25.43	255	256	.0828
50	11.47	34.060	6.14							50	13.47	34.080	6.14	25.61	229	240	.1325
75	12.60	34.040	6.41							75	12.60	34.040	6.41	25.75	225	227	.1909

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.40	34.050	7.01							100	10.40	34.050	7.01	26.16	186	188	.2429
125	9.20	34.280	5.26							125	9.40	34.280	6.26	26.54	150	152	.2855
150	7.67	34.290	5.28							150	7.67	34.290	6.28	26.79	127	129	.3207
200	4.00	34.370	6.16							200	4.00	34.370	6.16	27.31	77	79	.3729
250	1.75	34.450	5.84							250	1.75	34.450	5.84	27.57	52	53	.4061
300	1.15	34.560	5.56							300	1.15	34.560	5.56	27.70	40	40	.4297
400	.86	34.520	5.93							400	.86	34.520	5.93	27.69	41	41	.4710
500	.60	34.450	6.23							500	.60	34.450	6.23	27.65	45	45	.5147
KOREA, JI RI SAN, STATION 103-11, 36-30.3. N, 131-14.0. E, JUN.10.1980, 05.15 PST, DEPTH 2100, COLOR, TRANSP. . .																	
WAVE, SWELL 1, WIND SE 3, BARO 1010.5, AIR TEMP. DRY 4.1, WET . . . CLOUD. TYPE . . . AMT . . . WEATHER C, . . .																	
0	17.92	34.370	6.26							0	17.92	34.370	6.26	24.83	313	312	.0000
10	17.55	34.370	6.13							10	17.55	34.370	6.13	24.92	304	304	.0309
20	16.05	34.370	6.16							20	16.05	34.370	6.16	25.27	271	271	.0597
30	15.35	34.470	5.97							30	15.35	34.470	5.97	25.51	248	249	.0857
50	14.31	34.620	6.16							50	14.31	34.620	6.16	25.85	216	217	.1324
75	12.60	34.650	6.06							75	12.60	34.650	6.06	26.22	180	182	.1624
100	11.00	34.540	6.36							100	11.00	34.540	6.36	26.44	160	162	.2256
125	9.25	34.450	5.20							125	9.25	34.450	5.20	26.67	138	140	.2634
150	6.50	34.330	5.90							150	6.50	34.330	5.90	26.98	103	110	.2949
200	3.28	34.150	5.70							200	3.28	34.150	5.70	27.20	87	88	.3447
250	1.82	34.090	5.82							250	1.82	34.090	5.82	27.28	80	81	.3872
300	1.40	34.040	5.66							300	1.40	34.040	5.66	27.27	81	81	.4279
400	.90	34.030	5.66							400	.90	34.030	5.66	27.29	79	79	.5084
500	.70	34.060	5.77							500	.70	34.060	5.77	27.33	75	75	.5858

OBSERVED																	INTERPOLATED						CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY											

8월(August)

KOREA , JI RI SANH , STATION 103-04 , 36-30.3. N, 120-30.1. E, AUG.12.1980, 10.00 KST, DEPTH 110 , COLOR 2, TRANS. 11.0.
 WAVE 1, SWELL 1, WIND NE 3, BARO 1013. , AIR TEMP. DRY 25.7, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,
 0 21.75 33.060 5.39 0 21.75 33.060 5.39 22.84 503 502 .0000
 10 21.36 32.940 5.09 10 21.36 32.940 5.09 22.85 501 501 .0502
 20 21.59 33.080 5.29 20 21.59 33.080 5.29 22.90 497 497 .1002
 30 13.91 34.170 4.99 30 13.91 34.170 4.99 25.58 241 241 .1372
 50 8.88 34.370 5.29 50 8.88 34.370 5.29 26.66 138 179 .1754
 75 4.97 34.220 5.51 75 4.97 34.220 5.51 27.08 99 99 .2052
 105 3.95 34.200 4.88 100 4.12 34.203 4.99 27.16 91 92 .2202

KOREA , JI RI SANH , STATION 103-05 , 36-30.3. N, 120-35.4. E, AUG.12.1980, 11.00 KST, DEPTH 205 , COLOR 2, TRANS. 12.0.
 WAVE 1, SWELL 1, WIND NE 3, BARO 1013. , AIR TEMP. DRY 28.1, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 21.45 33.100 5.38 0 21.45 33.100 5.38 22.95 492 492 .0000
 10 21.45 33.030 5.88 10 21.45 33.030 5.88 22.90 497 497 .0495
 20 21.41 33.080 5.68 20 21.41 33.080 5.68 22.95 492 493 .0990
 30 20.85 33.080 5.37 30 20.85 33.080 5.37 23.10 478 479 .1477
 50 20.85 33.320 4.87 50 20.85 33.320 4.87 23.28 461 462 .2418
 75 10.65 34.280 4.89 75 10.65 34.280 4.89 26.30 173 174 .3215
 100 6.25 ***** 4.99 ***** 4.99 ***** *** *****
 125 4.85 34.230 5.73 125 4.85 34.230 5.73 27.10 97 98 *****
 150 ***** 34.180 5.83 150 ***** 34.180 5.83 ***** *** *****
 200 1.19 34.160 5.84 200 1.19 34.160 5.84 27.38 70 71 *****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SAN , STATION 103-06 , 36-30.3. N, 120-47.3. E, AUG.12.1980, 12.35 KST, DEPTH 235 , COLOR 4, TRANS. 13.0,																	
WAVE 1, SWELL 1, WIND NE 2, EARD 1012.5, AIR TEMP. DRY 23.8, WET , , CLOUD. TYPE NS, AMT 6, WEATHER FC,																	
0	21.75	33.240	4.99							0	21.75	33.240	4.99	22.97	490	489	.0000
10	21.50	33.320	4.99							10	21.50	33.320	4.99	23.10	477	477	.0484
20	20.18	33.590	5.11							20	20.18	33.590	5.11	23.66	424	424	.0935
30	17.00	34.110	6.08							30	17.00	34.110	6.08	24.85	311	311	.1304
50	14.81	34.520	5.22							50	14.81	34.520	5.22	25.66	233	235	.1850
75	12.89	34.540	5.23							75	12.89	34.540	5.23	26.08	194	196	.2389
100	10.85	34.530	5.70							100	10.85	34.530	5.70	26.46	158	160	.2835
125	9.36	34.490	5.65							125	9.36	34.490	5.65	26.68	137	139	.3210
150	7.65	34.380	5.45							150	7.65	34.380	5.45	26.86	120	122	.3538
200	3.60	34.220	5.40							200	3.60	34.220	5.40	27.23	85	86	.4060
230	2.79	34.180	5.10														
KOREA , JI RI SAN , STATION 103-07 , 36-30.3. N, 130-00.0. E, AUG.12.1980, 14.05 KST, DEPTH 350 , COLOR 3, TRANS. 16.0,																	
WAVE 1, SWELL 1, WIND NE 2, EARD 1012. , AIR TEMP. DRY 23.8, WET , , CLOUD. TYPE NS, AMT 7, WEATHER BC,																	
0	21.80	34.060	5.23							0	21.80	34.060	5.23	23.58	432	471	.0000
10	21.14	34.110	5.21							10	21.14	34.110	5.21	23.80	411	411	.0422
20	19.93	34.110	5.19							20	19.93	34.110	5.19	24.12	380	380	.0818
30	16.55	34.310	6.69							30	16.55	34.310	6.69	25.11	286	287	.1152
50	14.01	34.600	5.87							50	14.01	34.600	5.87	25.89	211	212	.1652
75	11.20	34.550	5.63							75	11.20	34.550	5.63	26.41	163	164	.2124
100	9.73	34.530	5.60							100	9.73	34.530	5.60	26.65	140	141	.2507

OBSERVED															INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY				
125	0.63	34.460	5.44							125	5.63	34.459	5.44	26.63	142	144	.2865				
150	0.54	34.410	5.39							150	5.54	34.410	5.39	26.75	130	133	.3212				
200	7.78	34.230	5.40							200	3.72	34.230	5.49	27.00	86	87	.2764				
250	1.47	34.140	5.39							250	1.47	34.140	5.39	27.74	74	74	.4170				
300	.94	34.130	5.49							300	.94	34.130	5.49	27.37	71	71	.4536				
400	.68	34.130	5.29							400	.68	34.130	5.29	27.39	70	70	.5245				
500	.50	34.120	5.63							500	.50	34.120	5.63	27.39	69	69	.5944				

KOREA , JT PI SAN , STATION 103-02 , 36-30.3. N, 130-18.6. E, AUG.12.1980, 10.10 KST, DEPTH 190 , COLOR 3, TRANS. 14.0,
 WAVE 1, SWELL 1, WIND NE 2, BARO 1012. , AIR TEMP. DRY 24.9, WET , CLOUD. TYPE HS, AM-10, WEATHER C ,

0	21.90	34.070	5.14						0	21.90	34.070	5.14	27.56	434	473	.0000
10	21.05	34.040	5.39						10	21.05	34.040	5.39	23.77	414	414	.0424
20	21.00	34.040	5.24						20	21.00	34.040	5.24	23.78	412	413	.0878
30	15.00	34.460	5.34						30	15.00	34.460	5.34	25.57	242	242	.1166
50	17.16	34.560	4.99						50	13.16	34.560	4.99	26.04	120	109	.1608
75	11.00	34.560	5.66						75	11.00	34.560	5.66	26.45	158	140	.2077
100	0.88	34.480	6.05						100	9.88	34.480	6.05	26.59	141	147	.2442
125	7.09	34.450	5.89						125	7.09	34.450	5.89	26.66	107	109	.2764
150	6.78	34.790	5.39						150	6.78	34.790	5.39	26.69	107	109	.3078
100	7.20	34.700	5.35													

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , JI SI CAN , STATION 103-00 , 36-30.3. N, 130-37.3. E, AUG.12.1980, 18.10 KST, DEPTH 2150 , COLOR 7, TRANS. 13.0, WAVE 1, SWELL 1, WIND NE 4, BARO 1012. , AIR TEMP. DRY 25.0, WFT . , CLOUD, TYPE NS, AMT 10, WEATHER C ,																		
0	21.85	37.050	5.69							0	21.85	37.050	5.69	27.48	441	441	.0000	
10	21.20	37.080	4.99							10	21.20	37.080	4.99	27.48	422	422	.0432	
20	20.16	34.060	4.99							20	20.16	34.060	4.99	24.02	389	390	.0838	
30	14.81	34.530	5.29							30	14.81	34.530	5.29	25.67	233	273	.1150	
50	17.60	34.550	4.79							50	13.60	34.550	4.79	25.94	207	208	.1592	
75	11.90	34.440	4.57							75	11.90	34.440	4.57	26.19	183	195	.2084	
100	8.06	34.500	5.29							100	8.06	34.500	5.29	26.29	117	118	.2464	
125	5.63	34.280	6.90							125	5.63	34.280	6.90	27.05	102	103	.2741	
150	3.27	34.190	5.27							150	3.27	34.190	5.27	27.24	84	85	.2977	
200	1.92	34.140	5.71							200	1.92	34.140	5.31	27.31	77	77	.3385	
250	1.52	34.140	5.40							250	1.52	34.140	5.40	27.34	74	75	.3768	
300	.96	34.130	5.19							300	.96	34.130	5.19	27.37	71	71	.4135	
400	.75	34.130	5.58							400	.75	34.130	5.58	27.38	70	70	.4848	
500	.65	34.130	5.59							500	.65	34.130	5.59	27.39	70	69	.5550	
KOREA , JI SI CAN , STATION 103-10 , 36-30.3. N, 130-55.6. E, AUG.12.1980, 20.15 KST, DEPTH 1800 , COLOR , TRANS. , WAVE 1, SWELL 1, WIND NE 4, BARO 1012. , AIR TEMP. DRY 12.6, WET . , CLOUD, TYPE NS, AMT 10, WEATHER C ,																		
0	21.35	37.060	5.25							0	21.35	37.060	5.25	23.63	427	427	.0000	
10	18.45	34.140	6.37							10	18.45	34.140	6.37	24.52	342	342	.0385	
20	15.95	34.510	5.19							20	15.95	34.510	5.19	25.40	258	259	.0686	
30	15.85	34.560	7.49							30	15.85	34.560	5.49	25.46	252	253	.0942	
50	11.15	34.580	4.99							50	11.15	34.580	4.99	26.44	160	160	.1356	
75	10.45	34.510	5.98							75	10.45	34.510	5.98	26.51	153	154	.1751	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	9.75	34.470	5.59							100	9.75	34.470	5.59	26.60	144	146	.2127
125	9.25	34.460	4.59							125	9.25	34.460	4.59	26.68	137	139	.2486
150	9.25	34.450	5.98							150	9.25	34.450	5.08	26.67	138	141	.2837
200	8.15	34.410	5.80							200	8.15	34.410	5.80	26.81	125	128	.3511
250	5.25	*****	5.68							250	5.25	*****	5.68	*****	***	***	*****
300	2.25	34.170	5.78							300	2.25	34.170	5.78	27.31	77	78	*****
400	1.15	34.120	5.29							400	1.15	34.120	5.29	27.35	73	74	*****
500	.85	34.130	5.45							500	.85	34.130	5.45	27.38	71	71	*****

KOREA , JI PI SAN , STATION 103-11 , 36-30.3. N, 131-14.0. E, AUG.12.1980, 22.20 KST, DEPTH 2100 , COLOR , TRANS. ,

WAVE 1, SWELL 1, WIND NE 3, BARO 1012. , AIP TEMP. DRY 13.1, WET 0 22.35 33.920 5.09 23.32 457 456 .0000

10 20.45 34.070 6.08 23.95 396 396 .0627

20 14.25 34.490 5.03 25.76 224 224 .0737

30 11.25 34.530 5.60 26.38 165 165 .0933

50 10.35 34.460 5.49 26.49 155 156 .1255

75 9.85 34.470 5.63 26.58 146 147 .1635

100 9.75 34.460 6.13 26.59 145 147 .2004

125 9.75 34.450 6.73 26.58 146 148 .2374

150 9.45 34.450 6.47 26.63 141 144 .2740

200 9.45 34.450 5.78 26.63 141 145 .3464

250 8.15 34.450 6.16 26.84 122 126 .4143

300 6.15 34.310 5.16 27.01 106 109 .4733

400 2.15 34.170 5.63 27.32 76 78 .5673

500 1.35 34.140 5.68 27.35 73 74 .6437

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10월(October)

KOREA ,JI RI SANH , STATION 103-04 , 36-30.3. N, 120-30.1. E, OCT. 9.1980. 11.10 KST, DEPTH 110 , COLOR 3, TRANSP. 9.8.

WAVE 2, SWELL 2, WIND NE 5, BARO 1024.5, AIR TEMP. DRY 22.0, WET , , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	22.15	32.990	5.39							0	22.15	32.990	5.39	22.67	518	518	.0000
10	19.35	33.170	5.10							10	19.35	33.170	5.10	23.56	434	434	.0477
20	18.25	33.430	5.19							20	18.25	33.430	5.19	24.03	389	389	.0839
30	13.45	34.330	4.62							30	13.45	34.330	4.62	25.80	220	221	.1194
50	8.15	34.330	4.90							50	8.15	34.330	4.90	26.75	131	131	.1547
75	5.45	34.240	5.49							75	5.45	34.240	5.49	27.04	103	103	.1861
105	4.35	34.200	5.74							100	4.53	34.207	5.70	27.12	95	94	.2071

KOREA ,JI RI SANH , STATION 103-05 , 36-30.3. N, 120-35.4. E, OCT. 9.1980, 12.10 KST, DEPTH 205 , COLOR 3, TRANSP. 11.0.

WAVE 2, SWELL 2, WIND E 3, BARO 1024. , AIR TEMP. DRY 21.5, WET , , CLOUD. TYPE AS, AMT 8, WEATHER C ,

0	19.73	33.040	5.49							0	19.73	33.040	5.49	23.36	453	452	.0000
10	19.67	33.030	5.29							10	19.67	33.030	5.29	23.37	452	452	.0453
20	18.34	33.420	5.16							20	18.34	33.420	5.16	24.00	392	392	.0875
30	6.34	34.180	5.49							30	6.34	34.180	5.49	26.88	118	118	.1131
50	3.23	34.220	5.10							50	3.23	34.220	5.10	27.26	81	82	.1331
75	2.06	34.110	5.28							75	2.96	34.110	5.28	27.20	87	88	.1544
100	2.24	34.110	5.81							100	2.24	34.110	5.81	27.26	82	82	.1756
125	1.13	34.100	5.83							125	1.13	34.100	5.83	27.34	75	75	.1953
150	1.11	34.100	6.07							150	1.11	34.100	6.07	27.34	75	74	.2141
200	1.00	34.080	5.88							200	1.00	34.080	5.88	27.33	75	75	.2518

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , STATION 103-06 , 36-30.3° N, 129-47.3° E, OCT. 9, 1980, 12.40 VST, DEPTH 850 , COLOR 7, TRANS. 12.0,																	
WAVE 2, SWELL 2, WIND SE 4, BARO 1023.5, AIR TEMP. DRY 22.5, WET , CLCUC. TYPE AS, AMT 8, WEATHER C ,																	
0	21.05	32.970	*****							0	21.05	32.970	*****	22.96	491	401	.0000
10	20.50	32.950	5.44							10	20.50	32.950	5.44	23.09	479	479	.0485
20	19.73	32.960	5.75							20	19.73	32.960	5.75	23.30	459	479	.0964
30	18.25	32.950	5.69							30	18.25	32.950	5.69	23.66	424	474	.1397
50	7.92	34.200	5.34							50	7.92	34.200	5.34	26.63	137	138	.1969
75	5.20	34.240	5.34							75	5.20	34.240	5.34	27.07	100	100	.2258
100	7.14	34.240	5.57							100	3.14	34.240	5.57	27.29	79	80	.2494
125	3.00	34.110	5.64							125	3.60	34.110	5.64	27.20	80	88	.2605
150	2.75	34.110	5.74							150	2.75	34.110	5.74	27.22	86	86	.2914
200	2.67	34.140	5.59							200	2.67	34.140	5.59	27.25	83	84	.3341
230	1.98	34.140	5.78														
KOREA , STATION 103-07 , 36-30.3° N, 130-00.0° E, OCT. 9, 1980, 15.10 VST, DEPTH 850 , COLOR 7, TRANS. 13.0,																	
WAVE 2, SWELL 2, WIND SE 4, BARO 1023. , AIR TEMP. DRY 22.5, WET , CLCUC. TYPE CU, AMT 9, WEATHER C ,																	
0	22.13	33.220	5.62							0	22.13	33.220	5.62	22.85	501	501	.0000
10	22.05	33.700	5.72							10	22.05	33.200	5.72	22.86	501	501	.0501
20	22.05	33.500	5.18							20	22.05	33.500	5.18	23.09	479	479	.0992
30	14.78	33.980	4.97							30	16.78	33.980	4.97	24.80	315	316	.1390
50	15.45	34.700	4.02							50	15.45	34.380	4.02	25.41	257	255	.1965
75	15.02	34.470	7.82							75	15.62	34.470	3.82	25.58	241	243	.2503
100	15.42	34.450	4.00							100	13.42	34.450	4.00	25.90	211	213	.3164

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
125	6.41	34.250	5.45							125	6.41	34.250	5.45	26.93	113	115	.3575
150	4.61	34.180	5.09							150	4.61	34.180	5.09	27.09	98	99	.3844
200	2.98	34.130	5.76							200	2.98	34.130	5.76	27.22	86	87	.4311
250	2.25	34.110	5.50							250	2.25	34.110	5.50	27.26	82	83	.4738
300	1.52	34.090	5.49							300	1.52	34.090	5.49	27.30	78	78	.5143
400	1.30	34.070	4.69							400	1.30	34.070	4.69	27.30	78	79	.5933
500	.95	34.090	5.78							500	.95	34.090	5.78	27.34	74	75	.6703

KOREA , J1 RI SAW , STATION 103-08 , 36-30.7. N, 130-18.6. E, OCT. 9, 1980, 17.10 KST, DEPTH 198 , COLOP 3, TFANS, 15.0.
WAVE 2, SWELL 2, WIND SE 4, BARO 1022.5, AIR TEMP. DRY 20.5, WET , CLOUD. TYPE CI, AMT 7, WEATHER C ,

0	22.15	33.600	6.06							0	22.15	33.600	6.06	23.14	474	474	.0000
10	22.20	33.590	6.67							10	22.20	33.590	6.67	23.11	476	476	.0476
20	22.25	33.700	6.28							20	22.25	33.700	6.28	23.18	470	470	.0949
70	21.75	*****	6.12							30	21.35	*****	6.12	*****	***	***	*****
50	18.50	34.030	6.30							50	18.50	34.030	6.30	24.43	351	352	*****
75	17.15	34.370	3.91							75	17.15	34.370	3.91	25.01	295	297	*****
100	15.87	34.370	4.05							100	15.87	34.370	4.05	25.31	267	269	*****
125	14.27	34.400	5.45							125	14.27	34.400	5.45	25.69	231	234	*****
150	7.20	34.260	3.90							150	7.20	34.280	3.90	26.85	121	123	*****
100	5.11	34.200	5.43														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI FI SAN , STATION 103-00 , 36-30.3. N, 130-27.3. E, OCT. 9, 1980, 19.10 KST, DEPTH 2150 , COLOR , WEATHER , TRANS.																	
WAVE 1, SWELL 2, WIND SE 3, BARO 1021. , AIR TEMP. DRY 18.5, WET 0 21.88 33.730 5.84 21.88 33.730 5.84 23.31 458 457 .0000																	
10	22.10	33.730	5.78							10	22.10	33.730	5.78	23.25	464	464	.0461
20	22.10	33.750	5.77							20	22.10	33.750	5.77	23.26	462	462	.0925
30	19.45	34.220	4.12							30	19.45	34.220	4.12	24.33	360	361	.1337
50	17.90	34.400	4.41							50	17.90	34.400	4.41	24.86	310	311	.2010
75	16.67	34.390	4.10							75	16.67	34.390	4.10	25.14	283	285	.2756
100	16.18	34.460	4.71							100	16.18	34.460	4.71	25.31	267	270	.3450
125	9.76	34.360	4.56							125	9.76	34.360	4.56	26.51	153	155	.3982
150	4.85	34.220	5.19							150	4.85	34.220	5.19	27.10	97	99	.4301
200	1.95	34.110	5.78							200	1.95	34.110	5.78	27.29	79	80	.4749
250	1.06	*****	6.52							250	1.06	*****	6.52	*****	***	***	*****
300	.77	34.090	5.51							300	.77	34.090	5.51	27.35	73	73	*****
400	.72	34.090	5.57							400	.72	34.090	5.57	27.35	73	73	*****
500	.70	34.150	5.69							500	.70	34.150	5.69	27.40	68	68	*****

KOREA , JI FI SAN , STATION 103-10 , 36-30.3. N, 130-55.6. E, OCT. 9, 1980, 21.15 KST, DEPTH 1800 , COLOR , WEATHER , TRANS.																	
WAVE 1, SWELL 2, WIND SE 3, BARO 1021. , AIR TEMP. DRY 18.2, WET 0 21.06 33.380 5.01 21.06 33.380 5.01 23.27 462 461 .0000																	
10	21.55	33.320	6.03							10	21.55	33.320	6.03	23.09	479	479	.0471
20	21.55	33.320	*****							20	21.55	33.320	*****	23.09	479	479	.0950
30	19.77	33.990	5.10							30	19.77	33.990	5.10	24.33	360	361	.1370
50	17.60	34.090	4.39							50	17.60	34.090	4.39	24.69	326	327	.2060
75	16.60	34.300	3.98							75	16.60	34.300	3.98	25.09	288	290	.2832

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY								

100	16.05	34.480	4.41							100	16.05	34.480	4.41	25.76	263	265	.3527
125	15.55	*****	3.92							125	15.55	*****	3.92	*****	***	***	*****
150	9.58	34.350	5.05							150	9.58	34.350	5.05	26.54	151	153	*****
200	2.67	34.160	6.46							200	2.67	34.160	6.46	27.27	81	82	*****
250	1.26	34.120	5.77							250	1.26	34.120	5.77	27.34	74	74	*****
300	.71	34.100	5.97							300	.71	34.100	5.97	27.36	72	72	*****
400	.70	*****	5.39							400	.70	*****	5.39	*****	***	***	*****
500	.65	34.090	5.73							500	.65	34.090	5.73	27.36	73	72	*****

KOREA JI RI SAN , STATION 103-11 , 36-30.3. N, 131-14.0. E, OCT. 9. 1980, 23.15 KST, DEPTH 2100 , COLOR , TRANS. ,

WAVE	1, SWELL	2, WIND SE	3, BARO 1020. , AIR TEMP. DRY	19.3, WET	0	21.45	*****	5.39	*****	5.68	23.16	472	472	*****	*****	*****	*****
0	21.45	*****	5.39		0	21.45	*****	5.39	*****	5.68	23.16	472	472	*****	*****	*****	*****
10	21.66	33.450	5.68		10	21.66	33.450	5.68	23.38	450	451	*****	*****	*****	*****	*****	*****
20	21.66	33.750	5.20		20	21.66	33.750	5.20	25.35	263	264	*****	*****	*****	*****	*****	*****
30	16.90	34.210	4.43		30	16.90	34.210	4.43	25.58	241	243	*****	*****	*****	*****	*****	*****
50	15.90	34.430	4.07		50	15.90	34.430	4.07	26.06	196	109	*****	*****	*****	*****	*****	*****
75	15.50	34.460	4.29		75	15.50	34.460	4.29	26.63	142	144	*****	*****	*****	*****	*****	*****
100	15.03	34.460	4.02		100	15.03	34.460	4.02	27.02	105	107	*****	*****	*****	*****	*****	*****
125	12.80	34.490	5.39		125	12.80	34.490	5.39	27.27	81	82	*****	*****	*****	*****	*****	*****
150	9.30	34.410	5.13		150	9.30	34.410	5.13	27.32	76	76	*****	*****	*****	*****	*****	*****
200	5.70	34.250	6.08		200	5.70	34.250	6.08	*****	5.20	***	*****	*****	*****	*****	*****	*****
250	2.20	34.110	5.39		250	2.20	34.110	5.39	27.37	72	71	*****	*****	*****	*****	*****	*****
300	.94	34.070	6.78		300	.94	34.070	6.78									
400	.70	*****	5.20		400	.70	*****	5.20									
500	.50	34.090	5.59		500	.50	34.090	5.59									

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D T	SVA	D-DY									

12월(December)

KOREA JUL FI SUN , STATION 103-04 , 36-30.7. N, 120-30.1. E, DEC.18.1980, 13.25 KST, DEPTH 110 , COLOR 7, TRANS. 13.0.																	
WAVE 1, SWELL 2, WIND NW 5, BARO 1010. , AIR TEMP. DRY 6.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	10.92	34.060	6.73							0	10.92	34.060	6.73	26.08	194	104	.0000
10	10.92	34.020	6.68							10	10.92	34.020	6.68	26.05	197	107	.0196
20	10.96	34.140	6.73							20	10.96	34.140	6.78	26.13	189	139	.0399
30	10.96	34.040	6.63							30	10.96	34.040	6.63	26.06	196	106	.0582
50	10.96	34.100	6.65							50	10.96	34.100	6.65	26.10	192	102	.0972
75	10.95	33.960	6.78							75	10.95	33.980	6.78	26.01	200	202	.1466
100	10.82	34.060	6.67							100	10.82	34.060	6.67	26.10	192	104	.1962

KOREA JUL FI SUN , STATION 103-05 , 36-30.3. N, 120-35.4. E, DEC.18.1980, 12.25 KST, DEPTH 205 , COLOR 2, TRANS. 14.0.																	
WAVE 1, SWELL 2, WIND NW 5, BARO 1020. , AIR TEMP. DRY 6.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	10.86	34.250	6.72							0	10.86	34.250	6.78	26.24	179	179	.0000
10	11.29	33.990	6.28							10	11.29	33.990	6.28	25.96	205	205	.0193
20	11.34	34.060	6.38							20	11.34	34.060	6.38	26.00	201	201	.0396
30	10.14	34.100	6.28							30	10.14	34.100	6.28	26.25	178	178	.0587
50	8.63	34.270	6.13							50	8.63	34.270	6.13	26.63	142	143	.0909
75	5.97	34.250	6.23							75	5.97	34.250	6.23	26.99	108	109	.1224
100	4.00	34.180	6.58							100	4.00	34.180	6.58	27.16	92	92	.1476
125	2.61	34.170	6.48							125	2.61	34.170	6.48	27.28	80	80	.1693
150	2.10	34.140	6.68							150	2.10	34.140	6.68	27.30	78	79	.1803
200	1.50	33.900	5.98							200	1.50	33.900	5.98	27.15	92	92	.2323

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KORFA , J1 F1 SAN , STATION 103-06 , 36-30.3. N, 120-47.3. E, DEC.18.1980, 10.55 KST, DEPTH 235 , COLOR 2, TRANS. 15.0, WAVE 2, SWELL 2, WIND NW 5, EARD 1019. , AIR TEMP. DRY 6.1, WET , CLOUD. TYPE AC, AMT 3, WEATHER RC,																	
0	17.21	34.000	6.30							0	13.21	34.000	6.30	25.60	240	239	.0000
10	17.51	34.020	6.38							10	13.51	34.020	6.38	25.55	244	244	.0242
20	12.92	34.050	6.27							20	12.92	34.050	6.27	25.69	231	231	.0480
30	12.21	33.990	6.23							30	12.21	33.990	6.23	25.78	222	222	.0707
50	10.34	34.080	6.07							50	10.34	34.080	6.07	26.20	183	184	.1114
75	6.72	34.250	6.13							75	6.72	34.250	6.13	26.89	117	118	.1492
100	4.21	34.280	6.23							100	4.21	34.280	6.23	27.21	86	87	.1749
125	2.35	34.200	6.27							125	2.35	34.200	6.27	27.33	76	76	.1954
150	2.35	34.180	6.30							150	2.35	34.180	6.30	27.31	77	78	.2147
200	1.04	34.160	6.13							200	1.94	34.160	6.13	27.33	76	76	.2534
230	1.26	34.110	6.18														

KOREA , J1 R1 SAN , STATION 103-07 , 36-30.3. N, 130-00.0. E, DEC.18.1980, 09.20 KST, DEPTH 250 , COLOR 3, TRANS. 16.0,																	
WAVE	2, SWELL	2, WIND NW	4, EARD 1018.	, AIR TEMP. DRY 7.2, WET				, CLOUD. TYPE , AMT				, WEATHER B ,					
0	15.13	34.110	6.80							0	15.13	34.110	6.80	25.28	270	270	.0000
10	15.30	34.070	6.18							10	15.30	34.070	6.18	25.21	277	277	.0274
20	14.38	34.050	6.48							20	14.38	34.050	6.48	25.39	259	259	.0542
30	14.32	33.900	6.03							30	14.32	33.900	6.03	25.29	269	269	.0807
50	13.35	33.860	6.23							50	13.35	33.860	6.23	25.46	253	254	.1331
75	13.33	34.040	6.38							75	13.33	34.040	6.38	25.60	239	241	.1950

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	17.29	34.060	6.48							100	13.69	33.880	6.48	25.49	256	252	.2568
125	17.27	34.200	6.23							125	13.67	34.200	6.23	25.74	226	279	.3171
150	12.75	34.090	6.08							150	12.75	34.090	6.08	25.76	224	278	.3743
200	5.71	33.980	6.28							200	5.71	33.980	6.28	26.80	125	127	.4633
250	3.90	34.210	6.58							250	3.90	34.210	6.58	27.19	88	90	.5179
300	1.34	34.110	6.63							300	1.34	34.110	6.63	27.33	75	76	.5596
400	.20	34.010	5.90							400	.20	34.010	5.90	27.32	76	76	.6357
500	.19	34.060	5.95							500	.19	34.060	5.95	27.76	72	72	.7098

KOREA , JI PI SAN , STATION 103-08 , 36-30.3. N, 130-18.6. E, DEC-18, 1980, 07.20 KST, DEPTH 198 , COLOR 7, TRANS. 15.0,
 WAVE 2, SWELL 2, WIND NW 3, BARO 1018. , AIR TEMP. DRV 7.0, WFT . , CLOUD. TYPE , AMT , WEATHER P ,

0	15.60	34.030	6.71							0	15.60	34.030	6.71	25.11	277	277	.0000
10	15.75	34.000	6.05							10	15.75	34.000	6.05	25.05	291	291	.0209
20	15.72	34.140	6.78							20	15.72	34.140	6.78	25.17	270	291	.0577
30	14.78	34.080	5.68							30	14.28	34.080	5.68	25.44	255	255	.0844
50	14.25	33.800	5.91							50	14.25	33.900	5.91	25.70	267	268	.1369
75	14.16	33.980	5.85							75	14.16	33.980	5.85	25.39	260	261	.2032
100	14.02	33.920	5.93							100	14.02	33.920	5.93	25.37	261	264	.2600
125	13.57	34.210	5.60							125	13.57	34.210	5.60	25.69	231	274	.3314
150	12.78	34.130	5.64							150	12.78	34.130	5.64	25.78	222	225	.3890
175	9.32	34.260	5.80														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SWA	D-DY
KOREA , JI PI SAN , STATION 103-09 , 36-30.3. N, 130-37.3. E, DEC.18.1980, 05.15 YST, DEPTH 2150 , COLOR , TRANS. , ,																	
WAVE	2, SWELL	2, WIND NW	4, BARO 1018.5, AIR TEMP. DRY	7.8, WET	, CLOUD, TYPE , AMT , WEATHER P ,												
0	15.35	34.050	6.88							0	15.35	34.050	6.88	25.18	279	279	.0000
10	15.43	34.080	6.88							10	15.43	34.080	6.88	25.19	279	279	.0279
20	14.49	34.120	6.38							20	14.49	34.120	6.38	25.42	256	256	.0547
30	14.38	34.130	6.04							30	14.38	34.130	6.04	25.45	253	254	.0803
50	14.20	34.020	6.27							50	14.20	34.020	6.27	25.41	258	259	.1316
75	14.19	34.100	6.77							75	14.19	34.100	6.77	25.47	252	273	.1977
100	14.00	34.050	6.88							100	14.00	34.050	6.88	25.47	251	274	.2583
125	13.70	34.150	6.78							125	13.70	34.150	6.78	25.61	238	241	.3212
150	13.20	34.150	6.77							150	13.20	34.150	6.77	25.71	229	232	.3805
200	8.05	34.220	6.88							200	8.05	34.220	6.88	26.67	137	140	.4739
250	5.41	34.290	6.48							250	5.41	34.290	6.48	27.09	98	101	.5345
300	2.21	34.170	6.11							300	2.21	34.170	6.11	27.31	77	78	.5705
400	.73	34.050	6.08							400	.73	34.050	6.08	27.32	76	76	.6569
500	.54	34.090	6.03							500	.54	34.090	6.03	27.36	72	72	.7312
KOREA , JI PI SAN , STATION 103-10 , 36-30.3. N, 130-55.6. E, DEC.18.1980, 03.15 KST, DEPTH 1000 , COLOR , TRANS. , ,																	
WAVE	1, SWELL	2, WIND NW	3, BARO 1021, , AIR TEMP. DRY	7.8, WET	, CLOUD, TYPE , AMT , WEATHER P ,												
0	15.39	34.000	6.23							0	15.39	34.000	6.23	25.14	284	283	.0000
10	15.78	34.110	6.30							10	15.38	34.110	6.30	25.22	275	275	.0280
20	15.29	34.080	6.08							20	15.29	34.080	6.08	25.22	276	276	.0556
30	14.09	34.110	6.09							30	14.99	34.110	6.09	25.31	267	268	.0828
50	14.79	34.110	6.08							50	14.79	34.110	6.08	25.35	263	264	.1361
75	14.75	34.060	6.07							75	14.75	34.060	6.03	25.32	266	268	.2027

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	14.75	34.100	5.87							100	14.75	34.100	5.87	25.35	263	265	.2604
125	14.56	34.150	5.96							125	14.56	34.150	5.96	25.43	255	278	.3351
150	14.32	34.200	5.98							150	14.32	34.200	5.98	25.52	247	271	.3988
200	9.74	34.250	6.23							200	9.74	34.250	6.23	26.43	161	164	.5078
250	3.04	34.230	6.17							250	3.04	34.230	6.17	27.29	79	80	.5642
300	1.25	34.200	6.18							300	1.25	34.200	6.18	27.41	68	68	.6016
400	.75	34.190	5.96							400	.75	34.190	5.96	27.43	66	66	.6689
500	.54	34.160	5.93							500	.54	34.160	5.93	27.42	67	66	.7354

KOREA JI PI SANH , STATION 103-11 , 36-30.3. N. 131-14.0. E, DEC.18.1980, 01.10 KST, DEPTH 2100 , COLOR , TRANS. . .

WAVE 2, SWELL 2, WIND NW 3, BARO 1021. , AIR TEMP. DRY 8.0, WET 0 15.68 34.050 6.38 25.11 286 286 .0000

10 15.70 34.120 6.18 25.16 281 281 .0284

20 15.72 34.070 6.28 25.12 285 286 .0558

30 15.75 34.020 6.43 25.07 290 290 .0857

50 15.75 34.060 6.06 25.10 287 288 .1436

75 15.74 34.060 5.98 25.10 287 288 .2158

100 15.78 34.100 6.26 25.12 285 287 .2878

125 15.25 34.060 6.11 25.21 276 279 .3588

150 14.05 34.060 6.38 25.47 252 255 .4257

200 10.16 34.030 6.07 26.19 184 167 .5367

250 6.70 34.080 5.74 26.76 130 137 .6170

300 2.20 34.070 5.89 27.23 84 85 .6718

400 1.20 34.140 5.98 27.36 72 73 .7512

500 .90 34.090 5.91 27.34 74 74 .8251

102선 해양관측성적

Oceanographic Data. Line 102

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA JI FI SAN , STATION 102-04 , 36-04.6. N, 120-36.9. E, FEB.11.1980, 15.40 KST, DEPTH 52 , COLOR 2, TRANS. 14.0.
 WAVE 2, SWELL 2, WIND SW 3, BARO 1027. , AIR TEMP. DRY 1.2, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,
 0 9.23 34.650 6.83 0 9.23 34.650 6.83 26.83 123 123 .0000
 10 10.43 34.620 6.44 10 10.43 34.620 6.44 26.60 144 144 .0134
 20 10.02 34.640 6.74 20 10.02 34.640 6.74 26.53 151 151 .0282
 30 10.32 34.550 6.64 30 10.32 34.550 6.64 26.57 148 148 .0432
 50 7.21 34.360 6.76 50 7.21 34.360 6.76 26.91 115 115 .0597

KOREA JI FI SAN , STATION 102-05 , 36-04.6. N, 120-41.3. E, FEB.11.1980, 14.50 KST, DEPTH 210 , COLOR 2, TRANS. 14.0.
 WAVE 2, SWELL 2, WIND SW 3, BARO 1027. , AIR TEMP. DRY 1.5, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,
 0 10.42 34.620 6.88 0 10.42 34.620 6.88 26.60 144 144 .0000
 10 11.72 34.600 6.39 10 11.72 34.600 6.39 26.35 168 168 .0156
 20 11.90 34.560 6.46 20 11.90 34.560 6.46 26.29 174 174 .0328
 30 11.72 34.570 6.44 30 11.72 34.570 6.44 26.33 170 171 .0501
 50 11.58 34.620 6.54 50 11.58 34.620 6.54 26.39 164 165 .0838
 75 11.30 34.580 6.42 75 11.30 34.580 6.42 26.41 162 164 .1250
 100 11.22 34.550 6.29 100 11.22 34.550 6.29 26.40 163 165 .1562
 125 10.30 34.400 6.97 125 10.30 34.460 6.97 26.50 154 156 .2065
 150 5.38 34.120 6.88 150 5.38 34.120 6.88 26.96 111 112 .2402
 200 2.50 34.120 6.76 200 2.50 34.120 6.76 27.25 83 84 .2894

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SAN , STATION 102-06 , 36-04.6, N, 120-47.8, E, FEB. 11, 1980, 13.30 KST, DEPTH 700 , COLOR 2, TRANS. 10.0, WAVE 7, SWELL 3, WIND SW 3, BARO 1026. , AIR TEMP. DRY 7.5, WET 8. , CLOUD. TYPE AC, AMT 2, WEATHER F ,																	
0	11.80	34.560	6.91							0	11.80	34.560	6.91	26.30	172	172	.0000
10	11.82	*****	6.16							10	11.82	*****	6.16	*****	***	***	*****
20	11.90	34.630	6.19							20	11.90	34.630	6.19	26.34	169	169	*****
30	11.50	34.670	6.34							30	11.50	34.670	6.34	26.45	159	159	*****
50	11.42	34.570	6.46							50	11.42	34.570	6.46	26.38	165	166	*****
75	10.28	34.540	6.57							75	10.28	34.540	6.57	26.56	148	149	*****
100	10.20	34.510	6.24							100	10.20	34.510	6.24	26.55	149	151	*****
125	9.15	34.420	5.93							125	9.15	34.420	5.93	26.66	139	141	*****
150	9.10	34.380	6.17							150	9.10	34.380	6.17	26.64	141	143	*****
200	2.27	34.090	6.14							200	2.27	34.090	6.14	27.24	83	84	*****
250	1.30	34.210	6.15							250	1.30	34.210	6.15	27.41	67	68	*****
300	1.20	34.070	6.60							300	1.20	34.070	6.60	27.31	77	78	*****
400	.89	34.130	6.44							400	.89	34.130	6.44	27.38	71	71	*****
500	.72	34.070	6.04							500	.72	34.070	6.04	27.34	75	74	*****

KOREA , JI PI SAN , STATION 102-07 , 36-04.6, N, 130-00.0, E, FEB.11,1980, 11.40 KST, DEPTH 1390 , COLOR 2, TRANS. 10.0,																		
WAVE 3, SWELL 3, WIND SW 4, BARO 1024.5, AIR TEMP. DRY 5.0, WET 5. , CLOUD. TYPE AC, AMT 2, WEATHER B ,																		
0	10.65	34.300	6.76							0	10.65	34.300	6.76	26.31	172	171	.0000	
10	10.67	34.340	6.54							10	10.67	34.340	6.54	26.34	169	169	.0171	
20	10.70	34.290	6.76							20	10.70	34.290	6.76	26.30	173	173	.0342	
30	10.69	34.350	6.97							30	10.69	34.350	6.97	26.34	169	169	.0514	
50	10.68	34.330	6.44							50	10.68	34.330	6.44	26.33	170	171	.0855	
75	10.66	34.210	6.14							75	10.66	34.210	6.14	26.24	178	178	.1294	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.57	34.500	6.19							100	10.57	34.500	6.19	26.48	156	157	.1717
125	10.53	34.340	6.30							125	10.53	34.340	6.30	26.27	167	169	.2127
150	10.48	34.380	6.16							150	10.48	34.380	6.16	26.40	163	166	.2547
200	7.32	34.290	6.23							200	7.32	34.290	6.23	26.84	122	125	.3276
250	4.20	34.500	6.24							250	4.20	34.500	6.24	27.39	70	72	.3770
300	2.00	34.110	6.40							300	2.00	34.110	6.40	27.28	80	81	.4153
400	.73	34.040	6.33							400	.73	34.040	6.33	27.31	77	77	.4945
500	.65	34.070	6.19							500	.65	34.070	6.19	27.24	74	74	.5704
KOREA , JI PI SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, FEB.11.1980, 09.20 KST, DEPTH 1530 , COLOR 2, TRANS. 14.0,																	
WAVE	3, SWELL	3, WIND SW	3, EARD 1024. , AIR TEMP. DRY	5.0, WET	, CLOUD. TYPE AC, AMT 2, WEATHER B ,												
0	9.64	34.310	6.24							0	9.64	34.310	6.24	26.49	154	154	.0000
10	9.80	34.480	6.36							10	9.80	34.480	6.36	26.60	144	144	.0150
20	10.10	34.500	6.44							20	10.10	34.500	6.44	26.56	148	148	.0296
30	10.17	34.340	6.56							30	10.17	34.340	6.56	26.43	161	161	.0451
50	10.14	34.280	6.14							50	10.14	34.280	6.14	26.39	165	165	.0779
75	10.10	34.200	6.24							75	10.10	34.200	6.24	26.33	170	171	.1201
100	10.00	34.220	6.69							100	10.00	34.220	6.69	26.36	167	169	.1627
125	10.00	34.360	6.90							125	10.00	34.360	6.90	26.47	157	159	.2038
150	10.08	34.350	*****							150	10.08	34.350	*****	26.45	159	161	.2439
200	10.06	34.410	6.88							200	10.06	34.410	6.88	26.50	164	165	.3240
250	14.90	34.680	6.73							250	14.90	34.680	6.73	25.77	224	230	.4212
300	7.31	34.360	6.76							300	3.31	34.360	6.76	27.37	72	74	.4974
400	.72	34.140	4.93							400	.72	34.140	4.93	27.39	69	69	.5692
500	.70	34.170	4.13							500	.70	34.170	4.13	27.42	67	67	.6377

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									
KOREA , STATION 102-00 , 36-04.6. N, 130-26.9. E, FEB. 11, 1980, 07.00 KST, DEPTH 1880 , COLOR , TRANS. ,																										
WAVE 3, SWELL 3, WIND SW 4, BARO 1026.5, AIR TEMP. DRY 4.5, WET , CLOUD, TYPE , AMT , WEATHER F ,																										
0	9.80	34.420	7.15							0	9.80	34.420	7.15	26.55	149	149	.0000									
10	10.82	34.460	6.73							10	10.82	34.460	6.73	26.41	163	163	.0156									
20	10.53	34.480	6.95							20	10.53	34.480	6.95	26.47	156	157	.0316									
30	10.34	34.450	7.10							30	10.34	34.450	7.10	26.48	155	156	.0473									
50	10.30	34.440	6.56							50	10.30	34.440	6.56	26.48	156	156	.0786									
75	10.25	34.450	6.74							75	10.25	34.450	6.74	26.50	154	155	.1177									
100	10.19	34.490	6.64							100	10.19	34.490	6.64	26.54	150	152	.1562									
125	10.15	34.360	6.24							125	10.15	34.380	6.24	26.46	157	160	.1953									
150	9.42	34.370	6.26							150	9.42	34.370	6.26	26.58	147	149	.2340									
200	7.58	34.220	6.23							200	7.58	34.220	6.23	26.74	131	134	.3050									
250	3.92	34.130	6.43							250	3.92	34.130	6.43	27.12	95	96	.3628									
300	2.00	34.130	6.41							300	2.00	34.130	6.41	27.30	78	79	.4070									
400	.69	34.040	6.26							400	.69	34.040	6.26	27.32	77	76	.4853									
500	.60	34.290	6.09							500	.60	34.290	6.09	27.52	57	57	.5525									
KOREA , STATION 102-10 , 36-04.6. N, 130-55.1. E, FEB. 11, 1980, 04.40 KST, DEPTH 1440 , COLOR , TRANS. ,																										
WAVE 3, SWELL 3, WIND SW 4, BARO 1026.5, AIR TEMP. DRY 4.7, WET , CLOUD, TYPE , AMT , WEATHER ,																										
0	9.74	34.440	7.05							0	9.74	34.440	7.05	26.58	146	146	.0000									
10	10.60	34.430	6.95							10	10.60	34.430	6.95	26.42	161	161	.0154									
20	10.69	34.560	7.05							20	10.69	34.560	7.05	26.51	153	153	.0312									
30	10.71	34.480	7.10							30	10.71	34.480	7.10	26.44	159	160	.0469									
50	10.71	*****	6.44							50	10.71	*****	6.44	*****	***	***	*****									
75	10.76	34.410	6.76							75	10.76	34.410	6.76	26.38	165	167	*****									

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.64	34.380	6.65							100	10.64	34.380	6.65	26.38	166	147	*****
125	10.61	34.420	6.52							125	10.61	34.420	6.52	26.41	162	165	*****
150	10.50	34.360	6.69							150	10.50	34.360	6.69	26.39	165	168	*****
200	7.61	34.290	6.55							200	7.61	34.290	6.55	26.79	126	129	*****
250	4.49	34.140	6.06							250	4.49	34.140	6.06	27.07	100	102	*****
300	2.05	34.130	6.04							300	2.05	34.130	6.04	27.29	79	80	*****
400	.77	34.090	6.06							400	.77	34.090	6.06	27.35	73	73	*****
500	.66	34.290	5.93							500	.66	34.290	5.93	27.52	57	57	*****
KOREA , JI RI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, FEB.11.1980, 02.20 KST, DEPTH 1780 , COLOR , TPANS. ,																	
WAVE	3, SWELL	3, WIND SW	4, BARO 1026. , AIR TEMP. DRY	4.0, WET	5, CLOUD. TYPE	6, AMT	7, WEATHER	8, .	9, .	0	9.02	*****	7.04	*****	***	***	.0000
10	9.23	34.500	6.74							10	9.23	34.500	6.74	26.71	134	134	*****
20	9.30	34.360	6.74							20	9.30	34.360	6.74	26.59	145	146	*****
30	9.17	34.320	6.95							30	9.17	34.320	6.95	26.58	146	147	*****
50	9.04	34.370	6.88							50	9.04	34.370	6.88	26.64	141	141	*****
75	8.27	34.220	6.79							75	8.27	34.220	6.79	26.64	140	141	*****
100	7.99	34.270	6.64							100	7.99	34.270	6.64	26.72	133	134	*****
125	8.01	34.220	6.67							125	8.01	34.220	6.67	26.68	137	139	*****
150	5.85	34.250	6.04							150	5.85	34.250	6.04	27.00	106	108	*****
200	3.90	34.240	5.75							200	3.90	34.240	5.75	27.21	86	88	*****
250	2.82	34.130	6.09							250	2.82	34.130	6.09	27.23	85	86	*****
300	2.04	34.150	6.13							300	2.04	34.150	6.13	27.31	77	78	*****
400	.60	34.150	6.14							400	.60	34.150	6.14	27.41	68	68	*****
500	.53	34.300	5.94							500	.53	34.300	5.94	27.53	56	56	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

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KOREA , JI RI SAN , STATION 102-02 , 36-04.6. N, 120-36.9. E, APR.21.1980, 11.10 KST, DEPTH 52 , COLOR 6, TRANS. 4.0,
WAVE 1, SWELL 1, WIND SW 3, BARO 1013. , AIR TEMP. DRY 14.0, WET . , CLOUD. TYPE CI, AM- 4, WEATHER CC,
0 11.65 34.360 6.15 0 11.65 34.380 6.15 26.19 183 193 .0000
10 11.02 34.370 6.84 10 11.02 34.370 6.84 26.30 173 173 .0178
20 7.03 34.250 6.45 20 7.03 34.250 6.45 26.95 121 171 .0326
30 5.20 34.190 5.73 30 5.20 34.190 5.73 27.03 103 103 .0438
50 2.16 34.090 5.64 50 2.16 34.090 5.64 27.25 83 82 .0675

KOREA , JI RI SAN , STATION 102-05 , 36-04.6. N, 120-41.3. E, APR.21.1980, 12.00 KST, DEPTH 210 , COLOR 4, TRANS. 7.0,
WAVE 1, SWELL 1, WIND SW 2, BARO 1014. , AIR TEMP. DRY 15.5, WET . , CLOUD. TYPE CI, AM- 8, WEATHER C ,
0 14.18 34.500 6.10 0 14.18 34.500 6.10 25.78 222 222 .0000
10 13.99 34.530 6.14 10 13.99 34.530 6.14 25.84 216 216 .0219
20 14.00 34.540 6.07 20 14.00 34.540 6.07 25.85 216 216 .0436
30 13.77 34.530 6.27 30 13.77 34.530 6.27 25.89 212 212 .0550
50 13.60 34.490 6.07 50 13.60 34.490 6.07 25.90 211 212 .1076
75 12.06 34.310 6.19 75 12.06 34.310 6.19 26.06 196 197 .1589
100 8.02 34.200 5.76 100 8.02 34.200 5.76 26.66 138 140 .2011
125 5.00 34.070 5.84 125 5.00 34.070 5.94 26.96 110 111 .2326
150 1.17 34.040 5.65 150 1.17 34.040 5.65 27.28 79 79 .2566
200 .68 34.030 5.59 200 .68 34.030 5.59 27.31 77 77 .2960

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI RI SANH , STATION 102-06 , 36-04.6. N, 129-47.8. E, APR.21.1980, 13.00 YST, DEPTH 700 , COLOR 3, TPANS. 15.0.																	
WAVE	1, SWELL	1, WIND SW	2, BARO 1012.5, AIR TEMP. DRY	17.3, WET	, CLOUD. TYPE CU, AMT 8, WEATHER C ,												
0	14.54	34.540	6.46							0	14.54	34.540	6.46	25.74	226	226	.0000
10	14.20	34.560	6.24							10	14.20	34.560	6.24	25.82	218	218	.0223
20	14.10	34.570	6.24							20	14.10	34.570	6.24	25.85	215	216	.0440
30	14.00	34.560	6.14							30	14.09	34.560	6.14	25.85	216	216	.0657
50	13.93	34.580	6.15							50	13.93	34.580	6.15	25.90	211	212	.1036
75	12.18	34.530	6.42							75	12.18	34.530	6.42	26.21	182	183	.1582
100	10.82	34.450	6.29							100	10.82	34.450	6.29	26.40	163	165	.2018
125	9.30	34.400	6.37							125	9.30	34.400	6.37	26.62	142	145	.2407
150	6.58	34.230	6.39							150	6.58	34.230	6.39	26.89	117	119	.2738
200	2.60	34.110	6.36							200	2.60	34.110	6.36	27.23	84	85	.3250
250	1.24	34.050	6.39							250	1.24	34.050	6.39	27.29	79	79	.3664
300	.73	34.040	6.04							300	.73	34.040	6.04	27.31	77	77	.4056
400	.50	34.060	5.90							400	.50	34.060	5.90	27.34	74	74	.4813
500	.39	33.990	5.54							500	.39	33.990	5.54	27.29	79	78	.5578
KOREA , JI RI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, APR.21.1980, 14.30 KST, DEPTH 1390 , COLOR 3, TPANS. 16.0.																	
WAVE	1, SWELL	1, WIND SE	2, BARO 1011.5, AIR TEMP. DRY	16.5, WET	, CLOUD. TYPE CU, AMT 10, WEATHER C ,												
0	13.35	34.540	6.23							0	13.35	34.540	6.23	25.08	203	203	.0000
10	13.08	34.520	6.41							10	13.08	34.520	6.41	26.02	199	199	.0201
20	12.94	34.520	6.50							20	12.94	34.520	6.50	26.05	196	197	.0400
30	12.92	34.520	6.59							30	12.92	34.520	6.59	26.06	196	197	.0597
50	12.80	34.520	6.32							50	12.80	34.520	6.32	26.08	194	195	.0989
75	11.96	34.500	6.39							75	11.96	34.500	6.39	26.23	180	181	.1460

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-OY

100	10.60	34.470	6.16							100	10.60	34.470	6.16	26.45	158	170	.1898
125	9.90	34.400	6.34							125	9.90	34.400	6.34	26.52	152	154	.2293
150	8.03	34.360	6.45							150	8.03	34.360	6.45	26.79	127	129	.2538
200	6.34	34.280	6.36							200	6.34	34.280	6.36	26.96	110	113	.3244
250	4.51	34.510	6.44							250	4.51	34.510	6.44	27.36	72	74	.3794
300	2.87	34.500	6.15							300	2.87	34.500	6.15	27.52	57	59	.4049
400	1.40	34.460	5.96							400	1.40	34.460	5.96	27.61	49	50	.4598
500	.94	34.370	5.86							500	.94	34.370	5.86	27.56	53	53	.5120

KOREA , JT PT SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, APR. 21. 1960, 16.35 PST, DEPTH 1530 , COLOR 4, TRANS. 15.0.																	
WAVE 2, SWELL 24 WIND SE 3, BARO 1011.5, AIR TEMP. DRY 15.0, WET . , CLOUD. TYPE CU, AMT 10, WEATHER C ,																	
0	12.23	34.500	6.46							0	12.23	34.500	6.46	26.18	185	184	.0000
10	12.00	34.510	6.42							10	12.00	34.510	6.44	26.23	180	180	.0183
20	11.95	34.510	6.39							20	11.95	34.510	6.39	26.24	179	179	.0362
30	11.80	34.510	6.64							30	11.80	34.510	6.64	26.27	176	177	.0541
50	11.80	34.510	6.56							50	11.80	34.510	6.56	26.27	176	177	.0895
75	11.77	34.500	6.47							75	11.77	34.500	6.47	26.26	176	176	.1340
100	11.08	34.500	6.47							100	11.08	34.500	6.47	26.29	164	165	.1771
125	10.60	34.530	6.25							125	10.60	34.530	6.25	26.50	154	156	.2176
150	10.50	34.490	6.04							150	10.50	34.490	6.04	26.49	155	158	.2570
200	9.40	34.480	6.26							200	9.40	34.480	6.26	26.67	138	142	.3322
250	7.12	34.440	6.34							250	7.12	34.440	6.34	26.98	108	112	.3959
300	5.83	34.360	6.05							300	5.83	34.380	6.05	27.11	96	100	.4491
400	7.85	34.070	5.88							400	3.85	34.070	5.88	27.08	98	101	.5503
500	1.95	34.190	6.03							500	1.95	34.190	6.03	27.35	73	75	.6300

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , JI FI SAN , STATION 102-00 , 36-04.6. N, 130-36.9. E, APR. 21, 1980, 18.40 PST, DEPTH 1080 , COLOR , TRANS. . .

WAVE 2, SWELL 2, WIND S 4, E-RO 1010.5, AIF TEMP. DRY 13.0, WET . , CLOUD. TYPE CU, AMT 9, WEATHER C ,

0	12.23	34.510	6.44							0	12.23	34.510	6.44	26.18	184	184	.0000
10	12.15	34.510	6.45							10	12.15	34.510	6.45	26.20	182	182	.0184
20	12.00	34.500	6.64							20	12.00	34.500	6.64	26.22	180	181	.0366
30	11.85	34.500	6.53							30	11.85	34.500	6.53	26.25	178	178	.0545
50	11.72	34.500	6.44							50	11.72	34.500	6.44	26.27	175	176	.0901
75	11.50	34.490	6.46							75	11.50	34.490	6.46	26.31	172	174	.1340
100	10.65	34.480	6.36							100	10.65	34.480	6.36	26.45	158	160	.1759
125	10.60	34.460	6.52							125	10.60	34.460	6.52	26.45	159	161	.2162
150	10.40	34.470	6.54							150	10.40	34.470	6.54	26.49	155	158	.2562
200	9.85	34.510	6.21							200	9.85	34.510	6.21	26.61	143	147	.3327
250	8.90	34.490	6.05							250	8.90	34.490	6.05	26.76	130	134	.4032
300	7.40	34.400	5.40							300	7.40	34.400	5.40	26.91	115	119	.4668
400	3.52	34.360	5.49							400	3.52	34.360	5.49	27.35	74	76	.5652
500	1.98	34.110	5.33							500	1.98	34.110	5.33	27.28	80	81	.6446

KOREA , JI FI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, APR. 21, 1980, 20.50 PST, DEPTH 1440 , COLOR , TRANS. . .

WAVE 3, SWELL 3, WIND SW 4, E-RO 1010. , AIR TEMP. DRY 12.5, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	17.04	34.470	6.39							0	13.04	34.470	6.39	25.09	202	202	.0000
10	13.00	34.530	6.46							10	13.00	34.530	6.46	26.05	197	197	.0200
20	12.80	34.510	6.44							20	12.80	34.510	6.44	26.07	195	195	.0396
30	12.30	34.510	6.49							30	12.30	34.510	6.49	26.17	185	186	.0587
50	11.65	34.480	5.42							50	11.65	34.480	6.42	26.27	176	177	.0950
75	10.97	34.470	6.44							75	10.97	34.470	6.44	26.39	165	166	.1379

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.87	34.470	6.54							100	10.87	34.470	6.54	26.41	163	165	.1794
125	10.74	34.430	6.64							125	10.74	34.430	6.64	26.40	164	166	.2209
150	10.40	34.410	6.46							150	10.40	34.410	6.46	26.44	159	162	.2420
200	10.20	34.400	6.14							200	10.20	34.400	6.14	26.47	157	161	.3430
250	9.42	34.350	5.97							250	9.42	34.350	5.97	26.56	148	153	.4217
300	8.10	34.370	5.92							300	8.10	34.370	5.92	26.78	127	132	.4930
400	7.48	34.130	5.59							400	7.48	34.130	5.59	27.17	91	93	.6060
500	1.16	34.040	5.45							500	1.16	34.040	5.45	27.29	79	80	.6931
KOREA , JI RI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, APR.21.1980, 22.55 KST, DEPTH 1780 , COLOR , T0ANS. ,																	
WAVE	2, SWELL	3, WIND SW	4, EARO 1010. , AIP TEMP. DRY	12.5, WET													
0	12.65	34.490	6.49							0	12.65	34.490	6.49	26.09	193	193	.0000
10	12.60	34.500	6.50							10	12.60	34.500	6.50	26.10	192	191	.0193
20	12.60	34.500	6.49							20	12.60	34.500	6.49	26.10	192	192	.0385
30	12.41	34.510	6.64							30	12.41	34.510	6.64	26.15	187	188	.0575
50	12.20	34.490	6.54							50	12.20	34.490	6.54	26.17	185	186	.0949
75	10.10	34.420	6.49							75	10.10	34.420	6.49	26.50	154	155	.1377
100	9.67	34.430	6.44							100	9.67	34.430	6.44	26.58	146	148	.1756
125	9.27	34.360	6.59							125	9.27	34.360	6.59	26.59	145	147	.2126
150	7.60	34.300	5.94							150	7.60	34.300	5.94	26.80	125	127	.2471
200	3.75	34.140	5.99							200	3.75	34.140	5.99	27.15	92	94	.3025
250	1.65	34.020	5.54							250	1.65	34.020	5.54	27.24	84	85	.3473
300	1.06	34.020	5.64							300	1.06	34.020	5.64	27.28	80	80	.3888
400	.73	34.000	5.56							400	.73	34.000	5.56	27.28	80	80	.4694
500	.63	34.020	5.50							500	.63	34.020	5.50	27.30	78	78	.5486

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

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KOREA , JI RI SAN , STATION 102-04 , 36-04.6. N, 129-36.9. E, JUN.10.1980, 20.05 KST, DEPTH 52 , COLOR 3, TRANS. 11.0,
 WAVE , SWELL , WIND SE 3, BARO 1007.5, AIR TEMP. DRY 22.7, WET , CLOUD. TYPE , AMT , WEATHER BC,
 0 18.00 33.730 6.04 0 18.00 33.730 6.04 24.32 361 361 .0000
 10 17.12 33.720 6.95 10 17.12 33.720 6.95 24.52 342 342 .0352
 20 15.27 34.130 5.76 20 15.27 34.130 5.76 25.26 272 272 .0659
 30 14.43 34.440 5.86 30 14.43 34.440 5.86 25.68 232 232 .0912
 50 14.30 34.580 5.09 50 14.30 34.580 5.09 25.82 219 220 .1364

KOREA , JI RI SAN , STATION 102-05 , 36-04.6. N, 129-41.3. E, JUN.10.1980, 19.10 KST, DEPTH 210 , COLOR 3, TRANS. 13.0,
 WAVE 1, SWELL 1, WIND SW 3, BARO 1008. , AIR TEMP. DRY 23.0, WET , CLOUD. TYPE CI, AMT 3, WEATHER BC,
 0 17.76 33.760 6.46 0 17.76 33.760 6.46 24.40 353 353 .0000
 10 16.91 34.150 6.42 10 16.91 34.150 6.42 24.90 306 306 .0330
 20 14.72 34.230 6.57 20 14.72 34.230 6.57 25.46 253 253 .0610
 30 14.61 34.430 6.29 30 14.61 34.430 6.29 25.64 236 236 .0855
 50 14.51 34.600 5.45 50 14.51 34.600 5.45 25.79 221 223 .1315
 75 13.52 34.600 5.66 75 13.52 34.600 5.66 26.00 202 203 .1849
 100 8.05 34.350 5.66 100 8.05 34.350 5.66 26.78 128 129 .2266
 125 6.43 34.270 5.71 125 6.43 34.270 5.71 26.94 112 113 .2570
 150 3.02 34.160 5.94 150 3.02 34.160 5.94 27.24 84 85 .2819
 200 1.17 34.100 6.04 200 1.17 34.100 6.04 27.33 75 75 .3221

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI RI SAN , STATION 102-06 , 36-04.6. N, 120-47.8. E, JUN.10.1980, 16.10 KST, DEPTH 700 , COLOR 3, TRANS. 15.0, WAVE 1, SWELL 1, WIND SE 3, BARO 1008. , AIR TEMP. DRY 24.5, WET 0 18.36 34.320 6.57 0 18.36 34.320 6.57 24.68 327 376 .0000																	
10	17.29	34.350	6.36							10	17.29	34.350	6.36	24.97	300	300	.0314
20	16.38	34.420	6.48							20	16.38	34.420	6.48	25.23	274	275	.0501
30	16.10	34.450	6.67							30	16.10	34.450	6.67	25.32	266	267	.0872
50	15.12	34.520	6.92							50	15.12	34.520	6.92	25.59	240	241	.1381
75	14.20	34.570	6.65							75	14.20	34.570	6.65	25.23	217	219	.1957
100	11.80	34.510	6.67							100	11.80	34.510	6.67	26.27	176	178	.2455
125	9.35	34.440	6.49							125	9.35	34.440	6.49	26.64	140	142	.2857
150	4.72	34.240	6.87							150	4.72	34.240	6.87	27.13	94	96	.3156
200	1.93	34.110	6.46							200	1.93	34.110	6.46	27.29	79	80	.3597
250	.80	34.090	6.38							250	.80	34.090	6.38	27.35	73	73	.3983
300	.65	34.060	5.89							300	.65	34.060	5.89	27.33	75	75	.4355
400	.56	34.060	5.81							400	.56	34.060	5.81	27.34	74	74	.5104
500	.50	34.060	5.86							500	.50	34.060	5.86	27.34	74	74	.5848
KOREA , JI RI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, JUN.10.1980, 16.35 KST, DEPTH 1390 , COLOR 3, TRANS. 15.0, WAVE 1, SWELL 1, WIND SW 3, BARO 1009. , AIR TEMP. DRY 23.5, WET 0 17.84 34.330 6.08 0 17.84 34.330 6.08 24.82 314 314 .0000																	
10	17.10	34.350	6.16							10	17.10	34.350	6.16	25.01	295	295	.0305
20	16.80	34.400	6.21							20	16.80	34.400	6.21	25.12	285	285	.0596
30	14.61	34.470	6.44							30	14.61	34.470	6.44	25.67	233	234	.0856
50	14.89	34.580	6.29							50	14.89	34.580	6.29	25.69	231	232	.1322
75	13.59	34.610	6.54							75	13.59	34.610	6.54	25.99	202	204	.1868

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	11.72	34.510	6.87							100	11.72	34.510	6.87	26.28	175	177	.2345
125	6.72	34.350	5.96							125	6.72	34.350	5.96	26.97	110	111	.2707
150	2.23	34.120	6.08							150	2.23	34.120	6.08	27.27	81	81	.2948
200	1.20	34.060	5.87							200	1.20	34.060	5.87	27.30	78	78	.3349
250	.76	34.060	5.81							250	.76	34.060	5.81	27.33	76	75	.3736
300	.60	34.090	5.47							300	.60	34.090	5.47	27.36	72	72	.4107
400	.55	34.070	5.71							400	.55	34.070	5.71	27.35	74	73	.4838
500	.49	34.070	5.76							500	.49	34.070	5.76	27.35	73	73	.5574
KOREA , JI RI SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, JUN.10.1980, 14.35 KST, DEPTH 1530 , COLOR 3, TRANS. 15.0,																	
WAVE 1, SWELL 1, WIND SW 3, BARO 1009. , AIR TEMP. DRY 22.7, WET , CLOUD. TYPE CI, AMT 4, WEATHER EC,																	
0	17.21	34.320	6.36							0	17.21	34.320	6.36	24.96	300	300	.0000
10	16.40	34.310	6.22							10	16.40	34.310	6.22	25.14	283	283	.0292
20	16.04	34.410	6.36							20	16.04	34.410	6.36	25.30	268	268	.0568
30	14.70	34.510	6.10							30	14.70	34.510	6.10	25.68	232	232	.0818
50	13.65	34.580	6.30							50	13.65	34.580	6.30	25.95	206	207	.1258
75	12.59	34.540	6.08							75	12.59	34.540	6.08	26.14	188	190	.1755
100	8.19	34.420	6.43							100	8.19	34.420	6.43	26.81	124	126	.2152
125	5.79	34.290	6.46							125	5.79	34.290	6.46	27.04	103	104	.2440
150	3.04	34.160	6.06							150	3.04	34.160	6.06	27.23	84	85	.2678
200	.98	34.060	6.46							200	.98	34.060	6.46	27.31	77	77	.3085
250	.78	34.110	6.06							250	.78	34.110	6.06	27.37	72	72	.3458
300	.58	34.060	5.78							300	.58	34.060	5.78	27.34	74	74	.3825
400	.49	34.120	5.79							400	.49	34.120	5.79	27.39	69	69	.4547
500	.43	34.070	5.86							500	.43	34.070	5.86	27.35	73	72	.5260

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SAN , STATION 102-00 , 36-04.6. N, 130-36.9. E, JUN.10.1980, 12.30 KST, DEPTH 1080 , COLOR 3, TRANS. 19.0, WAVE 1, SWELL 1, WIND SE 3, BARO 1010.5, AIR TEMP. DRY 0, WET 0, CLOUD. TYPE CI, AM- 4, WEATHER FC,																	
0	10.25	34.200	6.65							0	13.65	34.200	6.65	24.62	333	373	.0000
10	17.85	34.270	6.87							10	17.65	34.270	6.87	24.77	318	318	-.0326
20	16.65	34.320	6.77							20	16.65	34.320	6.77	25.09	288	288	-.0530
30	16.65	34.330	6.87							30	16.65	34.330	6.87	25.10	287	287	-.0918
50	12.95	34.490	6.87							50	12.95	34.490	6.87	26.03	199	200	-.1406
75	9.50	34.450	6.16							75	9.50	34.450	6.16	26.63	142	143	-.1876
100	5.25	34.390	6.18							100	5.25	34.390	6.18	27.18	89	90	-.2128
125	1.87	34.450	6.22							125	1.87	34.450	6.22	27.56	53	53	-.2308
150	1.39	34.450	6.24							150	1.39	34.450	6.24	27.60	50	50	-.2439
200	.09	34.050	5.86							200	.99	34.050	5.86	27.30	78	78	-.2760
250	.71	34.090	5.69							250	.71	34.090	5.69	27.35	73	73	-.3138
300	.62	34.060	5.86							300	.62	34.060	5.86	27.34	75	74	-.3509
400	.56	34.060	5.81							400	.56	34.060	5.81	27.74	74	74	-.4257
500	.50	34.090	5.35							500	.50	34.090	5.35	27.37	72	71	-.4989

KOREA , JI PI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, JUN.10.1980, 10.25 KST, DEPTH 1440 , COLOR 3, TRANS. 18.0, WAVE 1, SWELL 1, WIND SE 2, BARO 1010.5, AIR TEMP. DRY 0, WET 0, CLOUD. TYPE CI, AM- 4, WEATHER FC,																	
0	18.09	34.270	6.06							0	18.09	34.270	6.06	24.71	324	324	.0000
10	17.66	34.370	5.44							10	17.66	34.370	6.44	24.89	307	307	-.0316
20	16.10	34.370	6.46							20	16.10	34.370	6.46	25.26	272	272	-.0606
30	13.52	*****	6.60							30	13.52	*****	6.60	*****	***	***	*****
50	10.28	34.650	6.57							50	10.28	34.650	6.57	26.65	140	140	*****
75	8.02	34.420	6.57							75	8.02	34.420	6.57	26.84	122	123	*****

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

100	5.35	34.240	*****							100	5.35	34.240	*****	27.05	101	102	*****
125	2.89	34.100	6.21							125	2.89	34.100	6.21	27.20	88	88	*****
150	1.77	34.060	6.24							150	1.77	34.060	6.24	27.26	82	82	*****
200	1.25	34.040	6.14							200	1.25	34.040	6.14	27.28	80	80	*****
250	.84	34.040	5.88							250	.84	34.040	5.88	27.31	77	77	*****
300	.70	34.130	5.76							300	.70	34.130	5.76	27.19	70	70	*****
400	.59	34.050	5.80							400	.59	34.050	5.80	27.33	75	75	*****
500	.57	34.050	5.64							500	.57	34.050	5.64	27.33	75	75	*****

KOREA JUN 11 SWN , STATION 102-11 , 36-04.6. N, 131-13.6. E, JUN.10.1980, 08.20 KST, DEPTH 1780 , COLOR 3, TRANSP. 17.5.

WAVE 1, SWELL 1, WIND SE 2, BARO 1010.5, AIR TEMP. DRY .0, WET . , CLOUD. TYPE CI, AMT 3, WEATHER FC,

0	17.95	34.140	6.57							0	17.95	34.140	6.57	24.65	330	330	.0000
10	16.15	34.250	6.31							10	16.15	34.250	6.31	25.16	282	282	.0306
20	16.55	34.410	6.46							20	16.55	34.410	6.46	25.19	279	279	.0587
30	16.05	34.570	6.23							30	16.05	34.570	6.33	25.42	256	257	.0855
50	15.45	34.640	6.48							50	15.45	34.640	6.48	25.61	238	239	.1352
75	17.45	34.550	5.93							75	13.45	34.550	5.93	25.97	204	206	.1910
100	12.40	34.530	6.36							100	12.40	34.530	6.36	26.17	186	188	.2403
125	6.25	34.270	6.11							125	6.25	34.270	6.11	26.97	110	111	.2778
150	2.20	34.120	5.42							150	2.20	34.120	6.42	27.27	81	81	.3019
200	1.50	34.050	6.46							200	1.50	34.050	6.46	27.27	81	81	.3426
250	.95	34.040	6.31							250	.95	34.040	6.31	27.30	78	78	.3827
300	.80	34.040	.31							300	.80	34.040	.31	27.31	77	77	.4217
400	.62	34.060	5.70							400	.62	34.060	5.70	27.34	75	74	.4981
500	.55	34.070	6.06							500	.55	34.070	6.06	27.35	74	73	.5725

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

8월(August)

KOREA , JI PI SAN , STATION 102-04 , 36-04.6. N, 120-16.9. E, AUG.13, 1980, 13.25 KST, DEPTH 52 , COLOR 4, TRANS. 12.0,
 WAVE 1, SWELL 1, WIND SW 4, BARD 100E. , AIR TEMP. DRY 24.7, WET . , CLOUD. TYPE AS, AV= 10, WEATHER C ,

0	22.95	32.600	5.11							0	22.95	32.600	5.11	22.21	562	562	.0000
10	21.30	32.660	4.59							10	21.30	32.660	4.59	22.66	520	520	.0542
20	21.20	32.050	4.65							20	21.20	32.050	4.65	22.90	496	497	.1050
30	20.10	33.010	4.60							30	20.10	33.010	4.60	27.24	464	465	.1532
50	14.50	33.080	4.69							50	14.50	33.080	4.69	24.62	323	324	.2331

KOREA , JI PI SAN , STATION 102-05 , 36-04.6. N, 120-41.3. E, AUG.13, 1980, 12.25 KST, DEPTH 210 , COLOR 4, TRANS. 14.0,
 WAVE 1, SWELL 1, WIND SE 5, BARD 100E. , AIR TEMP. DRY 25.0, WET . , CLOUD. TYPE AS, AV= 10, WEATHER C ,

0	22.90	33.150	4.89							0	22.90	33.150	4.89	22.58	527	527	.0000
10	22.75	33.010	4.69							10	22.75	33.010	4.69	22.52	533	533	.0530
20	21.95	33.080	4.69							20	21.95	33.080	4.69	22.80	507	507	.1051
30	21.45	33.340	****							30	21.45	33.340	****	23.13	475	475	.1543
50	14.95	34.210	4.59							50	14.95	34.210	4.59	25.39	259	260	.2279
75	11.50	34.440	4.80							75	11.50	34.440	4.89	26.27	176	177	.2827
100	7.55	34.360	5.21							100	7.55	34.360	5.21	26.86	120	121	.3202
125	3.55	34.200	5.14							125	3.55	34.200	5.14	27.22	96	87	.3463
150	2.00	34.140	5.32							150	2.00	34.140	5.32	27.31	78	78	.3670
205	1.59	34.140	5.09							200	1.63	34.140	5.11	27.33	75	75	.4055

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	Q2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SAN , STATION 102-06 , 36-04.6. N, 120-47.8. E, AUG.13.1980, 11.20 KST, DEPTH 700 , COLOR 3, TPANS. 18.0.																	
WAVE 1, SWELL 1, WIND SE 4, BARO 1006. , AIR TEMP. DRV 24.7, WET , CLOUD. TYPE HS, AN 10, WEATHER C ,																	
0	22.88	33.010	5.24							0	22.88	33.010	5.24	22.48	537	536	.0000
10	22.82	32.930	5.39							10	22.82	32.930	5.39	22.44	541	541	.0539
20	22.48	33.460	5.59							20	22.48	33.460	5.59	22.94	493	494	.1057
30	15.89	32.460	5.76							30	15.89	33.460	5.76	24.61	334	334	.1671
50	14.40	32.840	5.68							50	14.40	33.840	5.68	25.23	275	276	.2082
75	10.15	34.180	5.59							75	10.15	34.180	5.59	26.31	172	174	.2645
100	8.69	34.480	5.16							100	8.69	34.480	5.16	26.78	127	129	.3025
125	6.70	34.520	5.19							125	6.70	34.520	5.19	27.10	97	98	.3310
150	4.35	34.510	5.49							150	4.35	34.510	5.49	27.38	70	72	.3523
200	2.09	34.430	5.17							200	2.09	34.430	5.17	27.53	56	57	.3847
250	1.45	34.330	5.24							250	1.45	34.330	5.24	27.50	59	60	.4141
300	1.10	34.250	5.61							300	1.10	34.250	5.61	27.46	63	63	.4451
400	.75	34.160	5.09							400	.75	34.160	5.09	27.41	68	68	.5111
500	.50	34.130	4.17							500	.50	34.130	4.17	27.40	69	68	.5797
KOREA , JI PI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, AUG.13.1980, 09.45 KST, DEPTH 1390 , COLOR 3, TPANS. 16.0.																	
WAVE 1, SWELL 1, WIND SE 4, BARO 1007. , AIR TEMP. DRY 23.3, WET , CLOUD. TYPE , AN 7 , WEATHER P ,																	
0	22.35	33.270	5.49							0	22.35	33.270	5.49	22.83	504	503	.0000
10	21.85	33.420	5.25							10	21.85	33.420	5.25	23.08	479	479	.0492
20	21.45	33.660	5.09							20	21.45	33.660	5.09	23.37	451	452	.0958
30	15.25	34.090	5.88							30	15.25	34.090	5.88	25.24	274	275	.1322
50	14.55	34.530	5.71							50	14.55	34.530	5.71	25.73	227	225	.1826
75	11.50	34.520	5.73							75	11.50	34.520	5.73	26.33	170	172	.2327

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA , JI PI SAN , STATION 102-09 , 36-04.6. N, 130-36.9. E, AUG.13,1980, 05.35 PST, DEPTH 1880 , COLOR , TRANS. . .																								
WAVE 1, SWELL 1, WIND SE 4, BARO 1009.5, AIR TEMP. DRY 23.2, WET . , FLOOD. TYPE , AMT , WEATHER F ,																								
0	21.05	33.890	4.85							0	21.05	33.890	4.85	23.66	424	424	.0000							
10	21.76	34.230	5.34							10	21.76	34.230	5.34	23.72	418	418	.0422							
20	17.76	34.450	6.28							20	17.76	34.450	6.28	24.93	303	304	.0783							
30	15.55	34.560	6.19							30	15.55	34.560	6.19	25.53	246	247	.1059							
50	14.20	34.510	5.25							50	14.20	34.510	5.25	25.79	222	223	.1529							
75	11.08	34.440	5.60							75	11.08	34.440	5.60	26.34	169	170	.2022							
100	8.83	34.420	5.88							100	8.83	34.420	5.88	26.71	134	135	.2405							
125	8.70	34.330	6.17							125	8.70	34.330	6.17	26.66	139	141	.2751							
150	6.90	34.170	5.68							150	6.90	34.170	5.68	26.80	125	127	.3087							
200	3.15	34.110	5.77							200	3.15	34.110	5.77	27.18	89	90	.3633							
250	1.45	34.120	5.24							250	1.45	34.120	5.24	27.33	75	76	.4050							
300	.93	34.100	5.78							300	.93	34.100	5.78	27.35	73	73	.4425							
400	.71	34.100	5.33							400	.71	34.100	5.33	27.36	72	72	.5158							
500	.60	33.980	5.73							500	.60	33.980	5.73	27.27	81	80	.5925							

KOREA , JI PI SAN , STATION 102-10 , 36-04.6. N, 130-5.1. E, AUG.13,1980, 03.30 PST, DEPTH 1440 , COLOR , TRANS. . .																	
WAVE 1, SWELL 1, WIND E 4, BARO 1010. , AIR TEMP. DRY 23.5, WET . , CLOUD. TYPE , AMT , WEATHER C ,																	
0	22.25	33.770	5.88							0	22.25	33.770	5.88	23.24	465	464	.0000
10	22.15	33.760	5.78							10	22.15	33.760	5.78	23.26	463	463	.0464
20	21.85	33.830	5.39							20	21.85	33.830	5.39	23.39	450	450	.0921
30	19.89	34.140	5.39							30	19.89	34.140	5.39	24.16	377	378	.1335
50	14.10	34.410	6.42							50	14.10	34.410	6.42	25.73	227	228	.1942
75	11.10	34.520	5.93							75	11.10	34.520	5.93	26.40	163	165	.2434

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	9.82	34.470	5.78							100	9.82	34.470	5.78	26.59	146	147	.2825
125	9.02	34.450	5.78							125	9.02	34.450	5.78	26.70	134	177	.3181
150	7.62	34.360	5.88							150	7.62	34.360	5.88	26.85	121	123	.3507
200	4.20	34.210	5.63							200	4.20	34.210	5.63	27.16	91	93	.4069
250	2.00	34.140	5.29							250	2.00	34.140	5.29	27.31	78	78	.4480
300	1.00	34.110	5.88							300	1.00	34.110	5.88	27.35	73	73	.4861
400	.80	34.200	5.50							400	.80	34.200	5.50	27.44	65	65	.5558
500	.65	34.140	5.40							500	.65	34.140	5.40	27.40	69	69	.6232
KOREA JI PI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, AUG.13.1980, 01.25 KST, DEPTH 1780 , COLOR , TPAWS. . .																	
WAVE 1, SWELL 1, WIND E 4, BARO 1011. , AIR TEMP. DRY 23.4, WET . , CLOUD. TYPE , AMT , WEATHER C ,																	
0	22.70	37.460	4.99							0	22.70	37.460	4.99	22.87	499	499	.0000
10	20.87	33.980	6.08							10	20.87	33.980	6.08	27.77	413	413	.0457
20	15.98	34.240	6.08							20	15.98	34.240	6.08	25.19	279	279	.0803
30	13.35	34.530	5.09							30	13.35	34.530	5.09	25.08	204	204	.1045
50	11.52	34.540	5.40							50	11.52	34.540	5.40	26.34	169	170	.1420
75	9.72	34.510	5.60							75	9.72	34.510	5.60	26.64	141	142	.1811
100	9.67	34.490	6.08							100	9.67	34.490	6.08	26.63	142	143	.2170
125	9.40	34.460	5.78							125	9.40	34.460	5.78	26.65	140	142	.2527
150	9.20	34.450	5.09							150	9.20	34.450	5.09	26.68	137	140	.2881
200	9.10	34.330	5.93							200	9.10	34.330	5.93	26.60	145	148	.3603
250	6.58	34.200	5.80							250	6.58	34.200	5.80	26.87	119	122	.4282
300	1.89	34.130	5.39							300	1.88	34.130	5.39	27.31	77	78	.4786
400	1.12	34.110	5.46							400	1.12	34.110	5.46	27.34	74	74	.5553
500	.85	34.220	5.54							500	.85	34.220	5.54	27.45	64	64	.6249

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									

10월(October)

KOREA , JI PI SANH , STATION 102-04 , 36-04.6. N, 120-36.9. E, OCT.10.1980, 14.00 KST, DEPTH 52 , COLOR 3, TPANS. 16.0.
 WAVE , SWELL , WIND SW 2, BARO 1010.5, AIR TEMP. DRY 25.0, WET . , CLOUD. TYPE , AMT 9, WEATHER C ,

0	20.50	32.770	6.49							0	20.50	32.770	6.49	22.95	492	491	.0000
10	21.35	33.250	5.98							10	21.35	33.250	5.98	23.09	479	479	.0485
20	17.12	33.650	5.22							20	17.12	33.650	5.22	24.47	347	347	.0899
30	14.98	34.420	4.41							30	14.98	34.420	4.41	25.55	244	245	.1195
50	9.52	34.320	5.48							50	9.52	34.320	5.48	26.52	152	153	.1594

KOREA , JI PI SAN , STATION 102-05 , 36-04.6. N, 120-41.3. E, OCT.10.1980, 13.05 KST, DEPTH 210 , COLOR 3, TPANS. 17.0.
 WAVE , SWELL , WIND NW 1, BARO 1019. , AIR TEMP. DRY 25.5, WET . , CLOUD. TYPE , AMT 9, WEATHER C ,

0	22.00	33.540	6.21							0	22.00	33.540	6.21	23.13	475	474	.0000
10	22.04	33.520	6.20							10	22.04	33.520	6.20	23.11	477	477	.0476
20	20.62	33.430	5.97							20	20.62	33.430	5.97	23.42	447	447	.0939
30	15.41	34.250	4.08							30	15.41	34.250	4.08	25.32	266	266	.1296
50	14.79	34.440	4.71							50	14.79	34.440	4.71	25.61	239	240	.1803
75	7.81	34.300	4.81							75	7.81	34.300	4.81	26.77	128	129	.2266
100	2.60	34.130	5.59							100	2.60	34.130	5.59	27.25	83	83	.2532
125	1.38	34.090	6.03							125	1.38	34.090	6.03	27.31	77	77	.2734
150	.96	34.100	5.59							150	.96	34.100	5.59	27.25	74	74	.2923
200	.85	34.040	5.81							200	.85	34.040	5.81	27.31	78	77	.3303

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO3-N	NO2-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D OY
KOREA , JI PI SANH , STATION 102-06 , 36-04.6. N, 120-47.8. E, OCT.10.1980, 12.05 PST, DEPTH 700 , COLOR 7, TRANSP. 18.0.																	
WAVE 1, SWELL 1, WIND SE 1, BARO , AIR TEMP. DRY 20.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	21.50	33.610	5.69							0	21.50	33.610	5.69	23.32	456	456	.0000
10	21.75	33.600	5.69							10	21.75	33.600	5.69	23.25	464	464	.0460
20	21.60	33.640	5.59							20	21.60	33.640	5.59	23.32	457	457	.0921
30	15.45	34.200	4.51							30	15.45	34.200	4.51	25.28	270	271	.1286
50	15.40	34.450	4.23							50	15.40	34.450	4.23	25.48	251	252	.1810
75	8.45	*****	6.08							75	8.45	*****	6.08	*****	***	***	*****
100	5.75	34.220	5.39							100	5.75	34.220	5.39	26.09	107	108	*****
125	4.65	34.160	5.76							125	4.65	34.160	5.76	27.07	100	101	*****
150	2.93	34.110	5.93							150	2.93	34.110	5.93	27.20	87	88	*****
200	2.10	34.100	6.47							200	2.10	34.100	6.47	27.27	81	82	*****
250	1.39	34.070	6.27							250	1.39	34.070	6.27	27.29	79	79	*****
300	.80	34.070	6.50							300	.80	34.070	6.50	27.33	75	75	*****
400	.66	34.080	5.90							400	.66	34.080	5.90	27.35	73	73	*****
500	.55	34.090	6.37							500	.55	34.090	6.37	27.36	72	72	*****
KOREA , JI PI SANH , STATION 102-07 , 36-04.6. N, 130-00.0. E, OCT.10.1980, 10.30 PST, DEPTH 1390 , COLOR 3, TRANSP. 20.0.																	
WAVE 1, SWELL 1, WIND SE 1, BARO 1020. , AIR TEMP. DRY 21.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	22.50	33.590	5.58							0	22.50	33.590	5.58	23.03	484	484	.0000
10	22.64	33.430	6.27							10	22.64	33.430	6.27	22.87	500	500	.0492
20	21.10	33.780	5.61							20	21.10	33.780	5.61	23.56	434	434	.0950
30	17.10	34.180	4.33							30	17.10	34.180	4.33	24.88	308	308	.1332
50	15.70	34.400	4.13							50	15.70	34.400	4.13	25.37	261	262	.1908
75	14.47	34.450	*****							75	14.47	34.450	*****	25.68	232	233	.2524

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY	
100	9.35	34.270	6.37						100	9.35	34.270	6.37	26.51	153	155	.3010	
125	4.57	34.200	5.57						125	4.57	34.200	5.57	27.11	96	97	.3325	
150	2.13	34.100	6.08						150	2.13	34.100	6.08	27.26	82	82	.3530	
200	1.15	34.070	5.64						200	1.15	34.070	5.64	27.31	77	77	.3950	
250	.90	34.070	6.57						250	.90	34.070	6.57	27.33	76	76	.4334	
300	.74	34.090	6.05						300	.74	34.090	6.05	27.35	73	73	.4708	
400	.63	34.070	6.62						400	.63	34.070	6.62	27.34	74	74	.5446	
500	.49	34.070	6.23						500	.49	34.070	6.23	27.35	73	73	.6185	
KOREA, JI FI SAN, STATION 102-03, 36-04.6. N, 130-18.4. E, OCT. 10, 1980, 08.30 PST, DEPTH 1530, COLOP 3, TRANS. 20.0.																	
WAVE 1, SWELL 1, WIND SE 1, EARN 10200, AIR TEMP. DRY 21.3, WET ., CLOUD. TYPE HS, AMT 10, WEATHER C,																	
0	20.94	33.120	5.96						0	20.94	33.120	5.96	23.10	477	477	.0000	
10	21.10	33.080	6.07						10	21.10	33.080	6.07	23.03	484	484	.0481	
20	20.98	33.200	4.96						20	20.98	33.200	4.96	23.15	473	473	.0960	
30	18.34	33.780	5.29						30	18.34	33.780	5.29	24.28	366	366	.1380	
40	16.22	34.330	4.10						50	16.22	34.330	4.10	25.20	277	278	.2026	
75	15.27	34.470	4.46						75	15.27	34.470	4.46	25.52	247	249	.2686	
100	14.18	34.500	5.00						100	14.18	34.500	5.00	25.78	222	224	.3279	
125	12.20	34.460	5.59						125	12.20	34.460	5.59	26.15	187	190	.3708	
150	3.19	34.160	5.76						150	3.19	34.160	5.76	27.22	86	86	.4144	
200	1.79	34.090	5.80						200	1.79	34.090	5.80	27.28	80	80	.4563	
250	1.00	34.050	5.08						250	1.00	34.050	5.08	27.30	78	78	.4960	
300	.81	34.060	5.78						300	.81	34.060	5.78	27.32	76	76	.5346	
400	.64	34.090	6.04						400	.64	34.090	6.04	27.36	73	72	.6091	
500	.54	34.070	5.88						500	.54	34.070	5.88	27.35	74	73	.6824	

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA , JI PI SAN , STATION 102-00 , 36-04.6. N, 130-56.9. E, OCT.10.1980, 06.25 KST, DEPTH 1880 , COLOR 7, TRANS. 16.0.																								
WAVE 1, SWELL 1, WIND SE 1, BARO 1020.5, AIR TEMP. DRY 18.5, WET , CLOUD. TYPE 05, AMT 10, WEATHER F ,																								
0	20.75	33.140	6.42							0	20.75	33.140	6.42	23.17	471	471	.0000							
10	21.28	33.020	6.18							10	21.28	33.020	6.18	22.94	493	493	.0483							
20	21.10	33.260	6.13							20	21.10	33.260	6.13	23.17	471	472	.0966							
30	17.35	34.110	6.57							30	17.35	34.110	6.57	24.77	319	319	.1362							
50	15.50	34.380	4.96							50	15.50	34.380	4.96	25.40	258	259	.1941							
75	13.80	34.490	5.41							75	13.80	34.490	5.41	25.85	215	217	.2538							
100	12.90	34.430	5.46							100	12.90	34.430	5.46	25.99	202	204	.3066							
125	9.95	34.430	5.05							125	9.95	34.430	5.05	26.54	151	153	.3514							
150	8.50	34.420	5.93							150	8.50	34.420	5.93	26.76	129	171	.3870							
200	5.12	34.370	*****							200	5.12	34.370	*****	27.18	89	91	.4420							
250	2.67	34.230	5.37							250	2.67	34.230	6.37	27.32	76	77	.4851							
300	.96	34.000	6.57							300	.96	34.000	6.57	27.27	81	81	.5250							
400	.65	34.100	5.90							400	.65	34.100	5.90	27.37	72	72	.6019							
500	.53	34.080	5.88							500	.53	34.080	5.88	27.36	73	72	.6765							

KOREA , JI PI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, OCT.10.1980, 04.25 KST, DEPTH 1440 , COLOR , TRANS. ,																	
WAVE , SWELL , WIND SE 1, BARO 1020.5, AIR TEMP. DRY 18.8, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	21.08	33.270	6.66							0	21.08	33.270	6.66	23.18	470	470	.0000
10	21.10	33.210	6.42							10	21.10	33.210	6.42	23.13	475	475	.0473
20	20.11	37.200	6.59							20	20.11	33.200	6.59	23.36	451	451	.0936
30	20.02	37.200	6.18							30	20.02	33.200	6.18	23.41	448	449	.1387
50	16.21	33.820	6.62							50	16.21	33.820	6.62	24.81	314	315	.2114
75	17.01	34.420	6.68							75	13.01	34.420	6.68	25.96	205	207	.2806

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.25	34.470	6.67							100	10.25	34.470	6.67	26.52	152	154	.3259
125	9.18	34.430	6.56							125	9.18	34.430	6.58	26.66	138	141	.3628
150	8.88	34.420	6.47							150	8.88	34.420	6.47	26.70	135	137	.3977
200	7.55	34.410	6.72							200	7.55	34.410	6.72	26.90	116	119	.4620
250	2.36	34.400	6.50							250	2.36	34.400	6.50	27.48	61	62	.5075
300	.99	34.400	4.99							300	.99	34.400	4.99	27.59	51	51	.5359
400	.80	34.380	5.60							400	.80	34.380	5.60	27.58	51	52	.5878
500	.50	34.360	6.12							500	.50	34.360	6.12	27.58	51	51	.6396
KOREA , JI PI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, OCT. 10, 1980, 02.20 PST, DEPTH 1780 , COLOR , TRANS. ,																	
WAVE , SWELL , WIND SE , WIND SE , CLOUD. TYPE , AMT , WEATHER ,																	
0	21.10	33.410	5.44							0	21.10	33.410	5.44	23.28	461	460	.0000
10	21.08	33.360	5.39							10	21.08	33.360	5.39	23.25	464	464	.0462
20	21.02	33.360	5.77							20	21.02	33.360	5.77	23.26	462	462	.0926
30	20.00	33.340	5.58							30	20.00	33.340	5.58	23.52	438	438	.1377
50	14.12	34.160	4.92							50	14.12	34.160	4.92	25.53	246	247	.2063
75	17.48	34.350	3.82							75	13.48	34.350	3.82	25.81	219	221	.2649
100	11.09	34.510	6.27							100	11.09	34.510	6.27	26.40	164	166	.3133
125	11.04	34.460	5.78							125	11.04	34.460	5.78	26.37	166	169	.3553
150	9.98	34.420	5.98							150	9.98	34.420	5.98	26.52	152	155	.3959
200	9.71	34.370	6.75							200	9.71	34.370	6.75	26.53	151	155	.4735
250	9.60	34.430	6.56							250	9.60	34.430	6.56	26.59	145	150	.5409
300	.94	34.420	6.45							300	.94	34.420	6.45	27.60	49	49	.5999
400	.72	34.420	6.27							400	.72	34.420	6.27	27.62	48	48	.6491
500	.49	34.350	6.67							500	.49	34.350	6.67	27.58	52	52	.6994

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D T	SVA	D-DY	

12월(December)

KOREA JI RI SAN , STATION 102-04 , 36-04.6. N, 120-76.9. E, DEC.17.1980, 10.40 VST, DEPTH 52 , COLOR 2, TRANS. 5.0,
 WAVE 1, SWELL 2, WIND SW 3, BARO 1021. , AIR TEMP. DRY 6.0, WET . , CLOUD. TYPE , AMT , WEATHER E ,

0	13.69	34.110	5.81							0	13.69	34.110	5.81	25.58	241	241	.0000
10	13.98	34.090	5.58							10	13.98	34.090	5.58	25.51	248	248	.0245
20	13.77	34.110	6.11							20	13.77	34.110	6.11	25.57	243	243	.0491
30	12.75	34.110	6.48							30	12.75	34.110	6.48	25.77	223	223	.0724
50	10.39	34.130	6.02							50	10.39	34.130	6.08	26.23	180	181	.1130

KOREA JI RI SAN , STATION 102-05 , 36-04.6. N, 120-41.3. E, DEC.17.1980, 11.30 VST, DEPTH 210 , COLOR 4, TRANS. 10.0,
 WAVE 1, SWELL 2, WIND SW 3, BARO 1021. , AIR TEMP. DRY 6.5, WET . , CLOUD. TYPE , AMT , WEATHER B ,

0	13.10	34.110	5.79							0	13.10	34.110	5.79	25.70	230	229	.0000
10	13.20	34.130	5.53							10	13.20	34.130	5.53	25.70	230	230	.0210
20	13.30	34.100	6.06							20	13.30	34.100	6.06	25.66	234	234	.0463
30	13.29	34.100	6.47							30	13.29	34.100	6.47	25.66	234	234	.0698
50	13.11	34.200	4.93							50	13.11	34.200	4.93	25.77	223	224	.1157
75	10.60	34.270	4.80							75	10.60	34.270	4.80	26.10	173	174	.1657
100	8.85	34.260	4.29							100	8.85	34.260	4.29	26.58	146	148	.2060
125	5.65	34.240	4.29							125	5.65	34.240	4.29	27.02	105	106	.2379
150	3.20	34.200	5.55							150	3.20	34.200	5.55	27.25	83	83	.2617
200	1.02	34.170	5.98							200	1.02	34.170	5.98	27.40	69	69	.3000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SAN , STATION 102-06 , 36-04.6. N, 120-47.8. E, DEC.17.1980, 12.30 KST, DEPTH 700 , COLOR 3, TRANS. 12.0,																	
WAVE 2, SWELL 2, WIND W 3, BARO 1021. , AIP TEMP. DRY 7.5, WET . , CLOUD. TYPE , AMT , WEATHER B ,																	
0	13.98	34.040	6.08							0	13.98	34.040	6.08	25.47	252	252	.0000
10	14.52	33.980	5.98							10	14.52	33.980	5.98	25.31	267	267	.0260
20	13.76	34.060	6.28							20	13.76	34.060	6.28	25.53	246	246	.0517
30	12.68	33.980	*****							30	12.68	33.980	*****	25.69	231	232	.0756
50	11.52	34.020	5.98							50	11.52	34.020	5.98	25.94	207	208	.1197
75	10.42	34.020	6.00							75	10.42	34.020	6.00	26.14	189	100	.1696
100	9.30	34.360	6.14							100	9.30	34.360	6.14	26.59	145	147	.2118
125	7.31	34.250	5.19							125	7.31	34.250	5.19	26.81	125	177	.2462
150	3.88	34.220	5.69							150	3.88	34.220	5.69	27.20	87	88	.2732
200	1.98	34.150	5.76							200	1.98	34.150	5.76	27.31	77	77	.3148
250	1.38	34.110	5.87							250	1.38	34.110	5.87	27.33	76	76	.3533
300	.46	34.100	5.83							300	.46	34.100	5.83	27.38	71	70	.3901
400	.39	34.100	5.84							400	.39	34.100	5.84	27.38	70	70	.4608
500	.37	34.100	5.15							500	.37	34.100	5.15	27.38	70	70	.5312
KOREA , JI PI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, DEC.17.1980, 14.00 KST, DEPTH 1390 , COLOR 3, TRANS. 13.0,																	
WAVE 1, SWELL 2, WIND SW 3, BARO 1021.5, AIR TEMP. DRY 7.0, WET . , CLOUD. TYPE , AMT , WEATHER B ,																	
0	14.80	34.030	5.74							0	14.80	34.080	5.74	25.33	265	265	.0000
10	15.46	34.060	5.38							10	15.46	34.060	5.38	25.17	281	281	.0273
20	15.50	34.030	5.70							20	15.50	34.030	5.70	25.13	284	284	.0556
30	14.45	34.050	5.98							30	14.45	34.050	5.98	25.38	261	261	.0829
50	13.60	34.050	6.10							50	13.60	34.050	6.10	25.56	244	245	.1336
75	12.61	34.090	5.90							75	12.61	34.090	5.90	25.78	222	223	.1922

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D-DY
100	10.25	34.140	5.93							100	10.25	34.140	5.93	26.26	177	179	.2426
125	8.30	34.250	5.88							125	8.30	34.250	5.88	26.66	139	141	.2826
150	4.00	34.190	5.39							150	4.00	34.190	5.39	27.16	91	92	.3118
200	2.51	34.150	5.68							200	2.51	34.150	5.68	27.27	81	81	.3554
250	1.28	34.110	5.72							250	1.28	34.110	5.72	27.33	75	75	.3948
300	.71	34.110	5.96							300	.71	34.110	5.96	27.37	71	71	.4316
400	.59	34.080	5.56							400	.59	34.080	5.56	27.35	73	73	.5041
500	.43	34.020	5.70							500	.43	34.020	5.70	27.31	77	76	.5791

KOREA JI PI SAN , STATION 102-03 , 36-04.6. N, 130-18.4. E, DEC.17.1960, 16.05 KST, DEPTH 1530 , COLOR 3, TPANS. 11.0.

WAVE 2, SWELL 2, WIND NW 3, BARO 1021. , AIR TEMP. DRY 9.0, WFT . , CLOUD. TYPE . , AMT , WEATHER B ,

0	14.52	37.960	6.40							0	14.52	33.980	6.40	25.31	267	277	.0000
10	15.70	34.030	6.28							10	15.30	34.030	6.28	25.18	280	279	.0274
20	14.50	34.020	6.31							20	14.50	34.020	6.31	25.34	264	274	.0546
30	14.47	34.040	5.98							30	14.47	34.040	5.98	25.37	262	262	.0809
50	13.60	34.020	5.92							50	13.60	34.020	5.92	25.53	246	247	.1319
75	12.78	34.050	6.03							75	12.78	34.050	6.03	25.72	228	229	.1916
100	12.62	34.090	6.20							100	12.62	34.090	6.20	25.78	222	224	.2484
125	12.60	34.130	6.18							125	12.60	34.130	6.18	25.82	219	221	.3042
150	11.45	34.200	5.25							150	11.45	34.200	5.25	26.09	193	196	.3565
200	6.75	34.130	5.86							200	6.75	34.130	5.86	26.79	126	129	.4380
250	2.71	34.090	5.77							250	2.71	34.090	5.77	27.21	87	88	.4925
300	.58	34.090	5.56							300	.58	34.090	5.56	27.36	72	72	.5328
400	.48	34.110	5.72							400	.48	34.110	5.72	27.38	70	70	.6041
500	.35	34.090	5.79							500	.35	34.090	5.79	27.37	71	70	.6748

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA																		
STATION 102-09, 36-04.6. N, 130-36.9. E, DEC.17.1980, 18.05 KST, DEPTH 1820, COLOR, TRANS.																		
WAVE 1, SWELL 2, WIND NW 3, EARD 1021, AIR TEMP. DRY 7.0, WET 7.0, WEATHER P.																		
0	14.85	34.050	5.57							0	14.85	34.050	5.57	25.29	269	248	.0000	
10	15.70	34.150	5.63							10	15.70	34.150	5.63	25.18	279	279	.0274	
20	14.80	34.060	5.98							20	14.80	34.060	5.98	25.31	267	267	.0548	
30	14.00	34.080	6.38							30	14.00	34.080	6.38	25.50	249	250	.0807	
50	13.83	34.100	6.55							50	13.83	34.100	6.58	25.55	244	245	.1303	
75	13.49	34.100	6.09							75	13.49	34.100	6.09	25.62	238	239	.1911	
100	13.41	34.100	6.29							100	13.41	34.100	6.39	25.63	236	239	.2509	
125	12.38	34.120	6.28							125	12.38	34.120	6.28	25.85	215	218	.3081	
150	10.30	34.120	6.09							150	10.30	34.120	6.09	26.23	179	182	.3583	
200	7.70	34.220	5.10							200	7.70	34.220	5.10	26.73	132	135	.4379	
250	3.68	34.020	5.28							250	3.68	34.020	5.28	27.06	101	102	.4975	
300	.80	33.970	5.23							300	.80	33.970	5.23	27.25	83	82	.5440	
400	.64	34.010	5.36							400	.64	34.010	5.36	27.29	79	78	.6249	
500	.35	33.950	5.78							500	.35	33.950	5.78	27.26	82	81	.7051	
KOREA																		
STATION 102-10, 36-04.6. N, 130-55.1. E, DEC.17.1980, 20.10 KST, DEPTH 1440, COLOR, TRANS.																		
WAVE 1, SWELL 2, WIND NW 3, EARD 1021, AIR TEMP. DRY 7.0, WET 7.0, WEATHER P.																		
0	15.40	33.900	6.78							0	15.40	33.900	6.78	25.06	291	291	.0000	
10	15.40	34.150	6.88							10	15.40	34.150	6.88	25.25	273	273	.0282	
20	15.19	33.980	6.77							20	15.19	33.980	6.77	25.16	281	281	.0560	
30	15.00	33.970	6.18							30	15.00	33.970	6.18	25.20	278	278	.0840	
50	14.78	33.970	6.20							50	14.78	33.970	6.20	25.25	273	274	.1303	
75	14.75	34.000	6.72							75	14.75	34.000	6.38	25.23	270	272	.2077	

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	14.75	37.060	5.03							100	14.75	37.060	5.03	25.26	272	274	.2761
125	14.65	34.010	6.18							125	14.65	34.010	6.18	27.70	268	271	.3443
150	14.52	33.050	6.12							150	14.52	33.050	6.18	25.29	269	273	.4124
200	9.80	34.250	6.18							200	9.80	34.250	6.18	26.42	161	165	.5222
250	3.06	34.060	5.96							250	3.06	34.060	5.96	27.15	92	93	.5871
300	1.54	34.000	6.38							300	1.54	34.000	6.38	27.23	85	85	.6320
400	.98	34.030	6.28							400	.98	34.030	6.28	27.29	79	79	.7148
500	.76	34.000	6.38							500	.76	34.000	6.38	27.28	80	80	.7949

KOREA , JI PI SANH , STATION 102-11 , 36-04.6. N , 131-13.6. E , DEC.17,1980, 24.10 VST, DEPTH 1780 , COLOR , TRANS. ,																	
HAVE 1, SWELL 1, WIND NW 3, BARO 1021. , AIP TEMP. DRY 8.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	15.09	33.990	6.23							0	15.09	33.990	6.23	25.19	278	278	.0000
10	15.08	34.020	6.05							10	15.08	34.020	6.05	25.22	276	276	.0277
20	15.10	33.970	6.08							20	15.10	33.970	6.08	25.18	280	280	.0555
30	14.30	33.970	6.03							30	14.80	33.970	6.03	25.24	274	274	.0833
50	14.44	33.930	6.24							50	14.44	33.930	6.24	25.20	269	270	.1378
75	14.41	33.990	6.07							75	14.41	33.990	6.07	25.34	264	266	.2069
100	14.41	33.980	5.96							100	14.41	33.980	5.96	25.33	265	267	.2717
125	14.40	33.920	5.70							125	14.40	33.920	5.70	25.20	269	272	.3392
150	13.08	34.380	5.53							150	13.08	34.380	5.53	25.92	209	213	.3999
200	11.12	34.270	5.58							200	11.12	34.270	5.58	26.21	182	186	.4999
250	8.41	34.200	5.60							250	8.41	34.200	5.60	26.68	137	141	.5820
300	2.80	33.980	5.43							300	2.80	33.980	5.43	27.11	96	97	.6420
400	1.10	33.980	5.73							400	1.10	33.980	5.73	27.24	84	84	.7330
500	.86	34.010	5.54							500	.86	34.010	5.54	27.28	80	80	.8154

209선 해양관측성적

Oceanographic Data. Line 209

OCCANOGRAPHIC DATA: LINE 809																	
OBSERVED									INTERPOLATED						CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , JI FI SAN , STATION 209-04 , 35-47.3. N, 120-32.8. E, FEB. 12. 1980, 04.30 VST, DEPTH 64 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND SW 2, EARD 1027. , AIR TEMP. DRY 2.8, WET , CLOUD. TYPE , AMT , WEATHER E ,																	
0	11.15	34.550	6.87							0	11.15	34.550	6.87	26.42	162	161	.0000
10	11.80	34.600	6.74							10	11.80	34.600	6.74	26.34	170	169	.0166
20	11.81	34.610	6.64							20	11.81	34.610	6.64	26.34	169	169	.0336
30	11.64	34.570	6.64							30	11.64	34.570	6.64	26.34	169	169	.0505
50	11.29	34.600	6.84							50	11.29	34.600	6.84	26.43	160	161	.0837
60	10.40	34.380	6.44														
KOREA , JI FI SAN , STATION 209-05 , 35-45.4. N, 120-38.4. E, FEB. 12. 1980, 05.30 VST, DEPTH 150 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND NW 2, EARD 1026. , AIR TEMP. DRY 3.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	11.10	34.590	6.24							0	11.10	34.590	6.24	26.46	158	158	.0000
10	11.25	34.580	6.49							10	11.25	34.580	6.49	26.42	161	161	.0160
20	11.24	34.530	6.31							20	11.24	34.530	6.31	26.39	165	165	.0324
30	11.30	34.550	6.44							30	11.30	34.550	6.44	26.39	164	165	.0489
50	11.23	34.320	6.55							50	11.23	34.320	6.55	26.22	180	181	.0836
75	10.41	34.330	6.36							75	10.41	34.330	6.36	26.38	165	167	.1271
100	10.40	34.330	6.96							100	10.40	34.330	5.96	26.38	165	167	.1590
125	9.21	34.310	6.04							125	9.21	34.310	6.04	26.56	148	150	.2068
145	8.80	34.270	6.04														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2 N	NO3 N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D-DY
KOREA JI PI SAN , STATION 209-06 , 35-41.2. N, 129-49.0. E, FEB.12,1980, 07.10 KST, DEPTH 250 , COLOR , TRANS.																	
WAVE 1, SWELL 1, WIND NW 3, BARO 1026. , AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE , AMT , WEATHER F ,																	
0	11.15	34.550	6.97							0	11.15	34.550	6.97	26.42	160	161	.0000
10	11.60	34.600	7.00							10	11.60	34.600	7.00	26.37	166	166	.0164
20	11.80	34.560	6.75							20	11.80	34.560	6.75	26.30	172	173	.0334
30	11.81	*****	6.74							30	11.81	*****	6.74	*****	***	***	*****
50	11.90	34.560	6.72							50	11.90	34.560	6.72	26.29	174	175	*****
75	10.85	34.430	6.84							75	10.85	34.430	6.84	26.38	165	167	*****
100	8.51	34.260	6.19							100	8.51	34.260	6.19	26.64	141	142	*****
125	7.71	34.380	5.95							125	7.71	34.380	5.95	26.85	121	122	*****
150	6.95	34.250	6.18							150	6.95	34.250	6.18	26.86	120	122	*****
200	3.11	34.250	6.14							200	3.11	34.250	6.14	27.30	78	79	*****
245	2.80	34.110	6.19														
KOREA JI PI SAN , STATION 209-07 , 35-36.8. N, 130-00.3. E, FEB.12,1980, 08.50 KST, DEPTH 250 , COLOR 2, TRANS. 13.0.																	
WAVE 1, SWELL 1, WIND NW 3, BARO 1025. , AIR TEMP. DRY 5.5, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,																	
0	11.85	34.570	6.22							0	11.85	34.570	6.22	26.30	173	172	.0000
10	12.51	34.590	6.29							10	12.51	34.590	6.29	26.19	183	183	.0178
20	12.51	34.570	6.14							20	12.51	34.570	6.14	26.18	185	185	.0363
30	12.50	34.560	6.61							30	12.50	34.560	6.61	26.17	185	186	.0549
50	12.49	34.560	6.44							50	12.49	34.560	6.44	26.17	185	186	.0921
75	11.99	34.540	6.52							75	11.99	34.540	6.52	26.25	177	179	.1379
100	11.89	34.560	6.93							100	11.89	34.560	6.93	26.29	174	176	.1824
125	11.89	34.600	6.24							125	11.89	34.600	6.24	26.32	171	174	.2262
150	11.51	34.530	6.30							150	11.51	34.530	6.30	26.34	170	173	.2697
200	3.99	34.180	6.36							200	3.99	34.180	6.36	27.16	92	93	.3364
245	3.12	34.100	6.37														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SAN , STATION 209-09 , 35-30.5. N, 130-16.9. E, FEB.12.1980, 11.00 KST, DEPTH 200 , COLOR 2, TRANSP. 14.0, WAVE , SWELL , WIND NW 3, BARO 1024.5, AIR TEMP. DRY 5.5, WET , CLOUD. TYPE AC, AMT 2, WEATHER B ,																	
0	12.09	34.520	6.36							0	12.09	34.520	6.36	26.22	181	180	.0000
10	12.29	34.600	6.26							10	12.29	34.600	6.26	26.24	178	178	.0180
20	12.35	34.580	6.09							20	12.35	34.580	6.09	26.21	181	181	.0360
30	10.41	34.550	6.39							30	10.41	34.550	6.39	26.55	149	150	.0526
50	10.09	34.730	6.53							50	10.09	34.730	6.53	26.75	131	131	.0808
75	10.08	34.610	6.16							75	10.08	34.610	6.16	26.65	139	141	.1149
100	9.05	34.580	6.30							100	9.05	34.580	6.30	26.80	125	127	.1485
125	8.50	34.490	6.34							125	8.50	34.490	6.34	26.82	124	126	.1802
150	4.23	34.430	6.44							150	4.23	34.430	6.44	27.33	75	76	.2056
195	3.62	34.340	6.54														
KOREA , JI PI SAN , STATION 209-09 , 35-24.4. N, 130-33.5. E, FEB.12.1980, 13.10 KST, DEPTH 150 , COLOR 2, TRANSP. 15.0, WAVE 2, SWELL 2, WIND NW 3, BARO 1023. , AIR TEMP. DRY 5.7, WET , CLOUD. TYPE AC, AMT 2, WEATHER B ,																	
0	11.00	*****	6.74							0	11.00	*****	6.74	*****	***	***	.0000
10	11.61	34.450	6.76							10	11.61	34.450	6.76	26.25	177	177	*****
20	11.70	34.520	6.26							20	11.70	34.520	6.26	26.29	174	174	*****
30	11.21	34.530	6.16							30	11.21	34.530	6.16	26.39	164	165	*****
50	11.30	34.600	6.49							50	11.30	34.600	6.49	26.43	161	162	*****
75	10.54	34.600	6.74							75	10.54	34.600	6.74	26.57	148	149	*****
100	7.50	34.290	6.68							100	7.50	34.290	6.68	26.81	124	126	*****
125	7.45	34.360	6.07							125	7.45	34.360	6.07	26.87	119	120	*****
145	7.05	34.060	5.94														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	Q2	P	TOTAL-P	M02-N	M03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D.T	SVA	D.Y
KOREA , STATION 209-10 , 35-17.8. N, 130-50.0. E, FEB.12.1980, 15.20 VST, DEPTH 140 , COLOR 2, TRANS. 13.0,																	
WAVE 2, SWELL 2, WIND NW 3, EARO 1022.5, AIF TEMP. DRY 5.9, WET . , CLOUD. TYPE AC, AMT 1, WEATHER C ,																	
0	10.18	34.470	6.53							0	10.18	34.470	6.53	26.53	151	151	.0000
10	10.35	34.480	6.82							10	10.35	34.480	6.82	26.51	153	153	.0153
20	9.80	34.380	6.54							20	9.80	34.380	6.54	26.52	152	152	.0306
30	9.23	34.490	6.41							30	9.23	34.490	6.41	26.70	135	135	.0450
50	9.15	34.460	6.31							50	9.15	34.460	6.31	26.69	136	136	.0722
75	8.08	*****	6.84							75	8.08	*****	6.84	*****	***	***	*****
100	8.05	34.550	6.77							100	8.05	34.550	6.77	26.53	113	114	*****
125	7.00	34.480	7.00							125	7.00	34.480	7.00	27.03	104	105	*****
135	6.98	34.460	5.87														

KOREA , STATION 209-11 , 35-11.4. N, 131-06.6. E, FEB.12.1980, 17.30 KST, DEPTH 140 , COLOR 2, TRANS. 14.0,																	
WAVE 2, SWELL 2, WIND NW 3, EARO 1022. , AIF TEMP. DRY 6.0, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,																	
0	10.85	34.450	6.95							0	10.85	34.450	6.95	26.39	164	164	.0000
10	11.54	34.360	6.64							10	11.54	34.360	6.64	26.20	183	183	.0174
20	11.57	34.330	6.56							20	11.57	34.330	6.56	26.17	185	185	.0358
30	11.50	34.430	6.14							30	11.50	34.430	6.14	26.26	177	177	.0540
50	11.21	34.450	6.74							50	11.21	34.450	6.74	26.33	170	171	.0829
75	11.00	34.400	*****							75	11.00	34.400	*****	26.37	166	167	.1313
100	9.89	34.250	6.95							100	9.89	34.250	6.95	26.41	163	165	.1729
125	7.80	34.400	7.03							125	7.80	34.400	7.03	26.85	120	122	.2089
135	6.74	34.220	6.84														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

4 월(April)

KOREA , JI RI SAN , STATION 209-04 , 35-47.3. N, 120-32.8. E, APR. 10, 1980, 20.20 KST, DEPTH 64 , COLOR , TRANS. , ,
 WAVE 3, SWELL 3, WIND SW 6, BARO 1014. , AIR TEMP. DRY 14.8, WET , , CLOUD. TYPE , AMT , WEATHER P ,

0	14.00	34.540	6.06							0	14.00	34.540	6.06	25.85	216	215	.0000
10	14.25	34.570	6.12							10	14.25	34.570	6.12	25.82	218	218	.0217
20	13.05	34.570	6.05							20	13.05	34.570	6.05	26.07	195	195	.0425
30	12.92	34.520	6.02							30	12.92	34.520	6.02	26.06	196	197	.0621
50	12.34	34.400	6.04							50	12.34	34.400	6.04	26.08	194	195	.1013
60	11.65	34.440	6.01														

KOREA , JI RI SAN , STATION 209-05 , 35-45.4. N, 120-38.4. E, APR. 18, 1980, 19.20 KST, DEPTH 150 , COLOR , TRANS. , ,
 WAVE 3, SWELL 3, WIND SW 6, BARO 1015. , AIR TEMP. DRY 14.8, WET , , CLOUD. TYPE , AMT 10, WEATHER P ,

0	13.97	34.560	6.14							0	13.97	34.560	6.14	25.87	214	213	.0000
10	14.19	34.570	6.12							10	14.19	34.570	6.12	25.83	217	217	.0216
20	13.09	34.560	6.29							20	13.09	34.560	6.29	26.05	196	197	.0423
30	12.00	34.520	6.31							30	12.00	34.520	6.31	26.24	179	179	.0612
50	11.92	34.460	6.14							50	11.92	34.460	6.14	26.20	182	183	.0975
75	11.11	34.420	6.10							75	11.11	34.420	6.10	26.32	171	172	.1420
100	10.54	34.390	6.24							100	10.54	34.390	6.24	26.40	163	165	.1842
125	8.34	34.360	6.06							125	8.34	34.360	6.06	26.74	131	133	.2216
145	7.67	34.240	5.83														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , STATION 209-06 , 35-47.3. N, 129-49.0. E, APR.18.1980, 17.50 KST, DEPTH 250 , COLOR 3, TPANS. 12.0,																		
WAVE 3, SWELL 3, WIND SE 5, EARO 1017. , AIR TEMP. DRY 14.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																		
0	14.15	34.580	6.18							0	14.15	34.580	6.18	25.85	216	215	.0000	
10	13.86	34.570	6.24							10	13.86	34.570	6.24	25.90	211	211	.0213	
20	12.99	34.570	6.19							20	12.99	34.570	6.19	26.08	194	194	.0416	
30	11.66	34.580	6.24							30	11.66	34.580	6.24	26.35	168	169	.0598	
50	11.00	34.560	6.20							50	11.00	34.560	6.20	26.47	157	158	.0926	
75	10.09	34.570	6.19							75	10.09	34.570	6.19	26.62	142	144	.1304	
100	9.50	34.490	6.22							100	9.50	34.490	6.22	26.66	139	141	.1661	
125	8.42	34.510	6.14							125	8.42	34.510	6.14	26.85	121	123	.1992	
150	7.36	34.440	6.04							150	7.36	34.440	6.04	26.95	111	114	.2289	
200	5.35	34.370	6.10							200	5.35	34.370	6.10	27.16	92	94	.2809	
245	5.18	34.290	6.12															
KOREA , STATION 209-07 , 35-36.8. N, 130-00.3. E, APR.18.1980, 16.15 KST, DEPTH 250 , COLOR 3, TPANS. 15. ,																		
WAVE 3, SWELL 3, WIND SE 5, EARO 1019. , AIR TEMP. DRY 14.7, WET , CLOUD. TYPE NS, AMT 8, WEATHER C ,																		
0	13.42	34.530	6.09							0	13.42	34.530	6.09	25.96	205	205	.0000	
10	13.11	34.540	6.23							10	13.11	34.540	6.23	26.03	196	198	.0202	
20	12.14	34.550	6.24							20	12.14	34.550	6.24	26.23	179	180	.0391	
30	12.18	34.520	6.26							30	12.18	34.520	6.26	26.20	182	183	.0573	
50	11.05	34.520	6.30							50	11.05	34.520	6.30	26.41	162	163	.0920	
75	10.34	34.520	6.14							75	10.34	34.520	6.14	26.54	150	152	.1314	
100	9.62	34.490	6.24							100	9.62	34.490	6.24	26.64	141	143	.1683	
125	8.76	34.390	6.14							125	8.76	34.390	6.14	26.70	135	137	.2074	
150	7.30	34.360	6.05							150	7.30	34.360	6.05	26.89	117	119	.2355	
200	5.45	34.360	6.09							200	5.45	34.360	6.09	27.14	94	96	.2893	
245	5.20	34.330	6.01															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI RI SAN , STATION 209-00 , 35-30.8. N, 130-16.9. E, APR. 18, 1980, 14.15 KST, DEPTH 200 , COLOR 3, TPANS. 14.0,																	
WAVE 2, SWELL 2, WIND SW 4, BARO 1020. , AIR TEMP. DRY 13.0, WET , CLOUD. TYPE , AMT , WEATHER E ,																	
0	12.35	34.510	6.26							0	12.35	34.510	6.26	26.16	186	156	.0000
10	12.24	34.500	6.27							10	12.24	34.500	6.27	26.17	185	185	.0186
20	12.15	34.510	6.19							20	12.15	34.510	6.19	26.20	182	183	.0370
30	12.10	34.540	6.20							30	12.10	34.540	6.20	26.23	179	180	.0552
50	11.12	34.490	6.24							50	11.12	34.490	6.24	26.38	166	166	.0899
75	10.30	34.430	6.21							75	10.30	34.430	6.21	26.48	156	158	.1305
100	9.75	34.420	6.22							100	9.75	34.420	6.22	26.56	148	150	.1691
125	8.67	34.520	6.13							125	8.67	34.520	6.13	26.81	124	126	.2037
150	7.25	34.310	6.24							150	7.25	34.310	6.24	26.86	120	122	.2348
195	5.50	*****	5.87														
KOREA , JI RI SAN , STATION 209-00 , 35-24.4. N, 130-33.5. E, APR. 18, 1980, 12.15 KST, DEPTH 150 , COLOR 3, TPANS. 16.0,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1020. , AIR TEMP. DRY 13.5, WET , CLOUD. TYPE , AMT , WEATHER E ,																	
0	12.90	34.540	6.35							0	12.90	34.540	6.35	26.08	194	194	.0000
10	12.82	34.530	6.29							10	12.82	34.530	6.29	26.08	193	193	.0194
20	12.70	34.540	6.26							20	12.70	34.540	6.26	26.12	190	191	.0387
30	12.70	34.530	6.22							30	12.70	34.530	6.22	26.11	191	192	.0578
50	12.70	34.530	6.34							50	12.70	34.530	6.34	26.11	191	192	.0963
75	12.57	34.520	6.14							75	12.57	34.520	6.14	26.13	189	191	.1443
100	11.60	34.480	6.09							100	11.60	34.480	6.09	26.28	175	177	.1904
125	11.45	34.460	6.07							125	11.45	34.460	6.07	26.29	174	176	.2347
145	10.55	34.440	6.05														

OBSERVED						INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA D-DY
KOREA , JI PI SAN , STATION 209-11 , 35-12.4. N, 131-06.6. E, APR.18.1980, 06.10 KST, DEPTH 140 , COLOR 3, TRANS. 15.0,															
WAVE 1, SWELL 1, WIND SW 3, BARO 1020. , AIR TEMP. DRY 17.0, WFT , CLOUD. TYPE , AMT , WEATHER F ,															
0	13.35	34.570	6.24						0	13.35	34.570	6.24	26.01	201	.0000
10	13.20	34.570	6.22						10	13.20	34.570	6.22	26.04	198	.0200
20	13.15	34.550	6.34						20	13.15	34.550	6.34	26.03	198	.0398
30	13.15	34.560	6.20						30	13.15	34.560	6.20	26.04	198	.0597
50	12.50	34.520	6.26						50	12.50	34.520	6.26	26.14	188	.0985
75	12.10	34.520	6.12						75	12.10	34.520	6.12	26.22	181	.1450
100	11.75	34.490	5.71						100	11.75	34.490	5.71	26.26	177	.1903
125	10.67	34.480	5.59						125	10.67	34.480	5.59	26.45	159	.2329
135	9.46	34.370	5.78												

KOREA , JI PI SAN , STATION 209-11 , 35-12.4. N, 131-06.6. E, APR.18.1980, 06.10 KST, DEPTH 140 , COLOR 3, TRANS. 16.0,															
WAVE 1, SWELL 1, WIND SW 3, BARO 1020. , AIR TEMP. DRY 11.7, WFT , CLOUD. TYPE , AMT , WEATHER E ,															
0	13.00	34.560	6.39						0	13.00	34.560	6.39	26.07	195	.0000
10	13.00	34.560	6.30						10	13.00	34.560	6.30	26.07	195	.0195
20	13.00	34.560	6.17						20	13.00	34.560	6.17	26.07	195	.0390
30	12.95	34.550	6.12						30	12.95	34.550	6.12	26.07	194	.0586
50	12.95	34.550	6.16						50	12.95	34.550	6.16	26.07	194	.0977
75	12.85	34.540	6.19						75	12.85	34.540	6.19	26.09	193	.1466
100	12.44	34.520	6.12						100	12.44	34.520	6.12	26.15	187	.1947
125	10.85	34.500	5.88						125	10.85	34.500	5.88	26.43	160	.2388
135	9.20	34.550	5.99												

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , JI PI SAN , STATION 209-06 , 35-41.3. N, 120-49.0. E, JUN.11.1980, 08.50 KST, DEPTH 250 , COLOR 3, TRANS. 19.0,																		
WAVE 1, SWELL 1, WIND SW 2, EARD 1006. , AIF TEMP. DRY .0, WET . , CLOUD. TYPE CI, AMT 3, WEATHER PC,																		
0	17.55	33.750	6.01							0	17.55	33.750	6.01	24.44	349	349	.0000	
10	17.20	33.770	6.15							10	17.20	33.770	6.15	24.54	340	340	.0345	
20	14.75	34.020	6.04							20	14.75	34.020	6.04	25.29	269	269	.0650	
30	14.75	34.260	5.86							30	14.75	34.260	5.86	25.48	251	252	.0911	
50	14.75	34.580	5.50							50	14.75	34.580	5.50	25.72	228	229	.1393	
75	14.15	34.560	4.24							75	14.15	34.560	4.24	25.83	217	219	.1954	
100	8.35	34.360	5.96							100	8.35	34.360	5.96	26.74	131	133	.2394	
125	5.24	34.250	5.46							125	5.24	34.250	5.46	27.07	99	101	.2687	
150	1.85	34.130	5.67							150	1.85	34.130	5.67	27.31	77	77	.2911	
200	1.25	34.080	5.16							200	1.25	34.080	5.16	27.31	77	77	.3299	
245	.98	34.090	5.24															
KOREA , JI PI SAN , STATION 209-07 , 35-36.8. N, 130-00.3. E, JUN.11.1980, 10.20 KST, DEPTH 250 , COLOR 3, TRANS. 19.0,																		
WAVE 1, SWELL 1, WIND NE 2, EARD 1007. , AIF TEMP. DRY .0, WET . , CLOUD. TYPE AC, AMT 2, WEATHER S ,																		
0	18.15	33.770	5.96							0	18.15	33.770	5.96	24.31	362	361	.0000	
10	16.85	34.220	6.04							10	16.85	34.220	6.04	24.97	299	299	.0331	
20	15.45	33.850	6.08							20	15.45	33.850	6.08	25.01	296	296	.0629	
30	14.35	34.380	6.17							30	14.35	34.380	6.17	25.65	234	235	.0895	
50	12.60	34.560	5.77							50	13.60	34.560	5.77	25.95	206	207	.1338	
75	12.88	34.530	6.06							75	12.88	34.530	6.06	26.07	195	196	.1844	
100	12.90	34.480	6.31							100	12.60	34.480	6.31	26.05	197	199	.2339	
125	7.74	34.370	6.42							125	7.74	34.370	6.42	26.84	122	124	.2743	
150	6.60	34.290	6.22							150	6.00	34.290	6.22	26.94	113	114	.3042	
200	1.85	34.120	5.67							200	1.65	34.120	5.67	27.30	78	78	.3527	
245	.75	34.090	5.55															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI PI SAN , STATION 209-00 , 35-30.8. N, 130-16.9. E, JUN.11.1960, 12.20 VST, DPTH 200 , COLOR 7, TRANS. 13.0,																	
WAVE 1, SWELL 1, WIND NE 4, EARG 1007. , AIR TEMP. DRY 26.0, WET , CLOUD. TYPE AS, AMT 2, WEATHER F ,																	
0	18.70	34.120	6.59							0	18.70	34.120	6.59	24.44	349	349	.0000
10	17.76	34.220	6.54							10	17.76	34.220	6.54	24.75	320	320	.0335
20	16.39	34.430	6.29							20	16.39	34.430	6.29	25.24	274	274	.0633
30	15.40	34.620	5.86							30	15.40	34.620	5.86	25.61	239	239	.0800
50	14.31	34.580	5.94							50	14.31	34.580	5.94	25.82	219	220	.1350
75	12.35	34.500	5.86							75	12.35	34.500	5.86	26.15	187	188	.1861
100	9.70	34.440	6.21							100	9.70	34.440	6.21	26.59	146	148	.2282
125	8.00	34.350	6.13							125	8.00	34.350	6.13	26.78	127	129	.2629
150	6.05	34.290	6.26							150	6.05	34.290	6.26	27.01	106	108	.2926
195	3.85	34.180	5.87														
KOREA , JI PI SAN , STATION 209-00 , 35-24.4. N, 130-13.5. E, JUN.11.1960, 14.20 VST, DEPTH 150 , COLOR 7, TRANS. 14.0,																	
WAVE 1, SWELL 1, WIND SE 4, EARG 1006. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE CI, AMT 3, WEATHER BC,																	
0	18.95	34.730	5.61							0	18.95	34.730	5.61	24.54	340	340	.0000
10	18.20	34.740	5.92							10	18.20	34.740	5.92	24.74	322	322	.0331
20	17.98	34.290	6.01							20	17.98	34.290	6.01	24.75	320	320	.0653
30	17.19	34.390	5.65							30	17.19	34.390	5.65	25.02	295	295	.0961
50	15.99	34.580	6.16							50	15.99	34.580	6.16	25.45	254	255	.1512
75	14.48	34.620	5.92							75	14.48	34.620	5.92	25.91	219	221	.2109
100	11.57	34.510	5.82							100	11.57	34.510	5.82	26.31	172	174	.2604
125	8.70	34.730	5.56							125	8.70	34.730	5.56	26.70	135	137	.2994
145	6.02	34.310	5.76														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D-DY
KOREA JI FI SAN , STATION 209-10 , 35-17.8. N. 130-50.0. E. JUN.11.1980. 16.20 VST, DEPTH 140 , COLOR 3, TRANS. 13.0.																	
WAVE , SWELL , WIND SE 4, BARO 1006. , AIR TEMP. DRY 25.5, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,																	
0	18.69	34.310	6.21							0	18.69	34.310	6.21	24.59	335	375	.0000
10	18.12	34.710	5.92							10	18.12	34.310	5.92	24.73	322	322	.0329
20	17.95	34.320	6.26							20	17.95	34.320	6.26	24.78	317	317	.0649
30	16.80	34.380	6.22							30	16.80	34.380	6.22	25.11	286	287	.0952
50	15.42	34.400	6.06							50	15.42	34.400	6.06	25.44	255	256	.1486
75	14.08	34.510	6.57							75	14.08	34.510	6.57	25.81	219	221	.2094
100	10.06	34.460	5.94							100	10.06	34.460	5.94	26.54	150	152	.2561
125	6.80	34.290	5.77							125	6.80	34.290	5.77	26.91	115	117	.2898
135	5.76	34.200	5.50														
KOREA JI FI SAN , STATION 209-11 , 35-11.4. N. 131-06.6. E. JUN.11.1980. 18.20 VST, DEPTH 140 , COLOR 3, TRANS. 14.0.																	
WAVE , SWELL , WIND SE 3, BARO 1006. , AIR TEMP. DRY 25.4, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,																	
0	18.95	34.290	6.14							0	18.95	34.290	6.14	24.51	343	343	.0000
10	17.75	34.320	6.44							10	17.75	34.320	6.44	24.83	312	312	.0328
20	17.20	34.330	5.89							20	17.20	34.330	5.89	24.97	299	299	.0635
30	16.40	34.430	5.56							30	16.40	34.430	5.56	25.24	274	275	.0922
50	13.49	34.530	6.58							50	13.49	34.530	6.58	25.95	206	207	.1405
75	12.40	34.520	6.67							75	12.40	34.520	6.67	26.16	186	188	.1900
100	9.25	34.420	6.80							100	9.25	34.420	6.80	26.64	140	142	.2313
125	6.65	34.300	6.06							125	6.65	34.300	6.06	26.94	113	114	.2635
135	5.78	34.240	6.23														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

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KOREA JI RI SAN , STATION 209-04 , 35-47.7. N, 120-32.8. E, AUG.14.1980, 12.20 KST, DEPTH 64 , COLOR 4, TRANS. 11.0,
 WAVE 1, SWELL 1, WIND SW 3, BARO 1006. , AIR TEMP. DRY 27.5, WET . , CLOUD. TYPE NS, AMT 8, WEATHER C ,

0	23.19	32.940	4.88							0	23.19	32.940	4.88	22.34	550	550	.0000
10	22.00	32.910	4.89							10	22.00	32.910	4.89	22.65	520	520	.0536
20	20.56	32.950	4.69							20	20.56	32.950	4.69	23.07	480	480	.1036
30	19.76	33.390	4.69							30	19.76	33.390	4.69	23.62	428	429	.1691
50	17.00	33.700	4.79							50	17.00	33.700	4.79	24.54	341	342	.2263
60	13.37	33.950	4.98														

KOREA JI RI SAN , STATION 209-05 , 35-45.4. N, 120-38.4. E, AUG.14.1980, 13.20 KST, DEPTH 150 , COLOR 7, TRANS. 11.0,
 WAVE 1, SWELL 1, WIND SW 3, BARO 1006. , AIR TEMP. DRY 26.2, WET . , CLOUD. TYPE NS, AMT 8, WEATHER C ,

0	21.41	32.730	5.27							0	21.41	32.730	5.27	22.68	518	517	.0000
10	21.11	32.780	5.19							10	21.11	32.780	5.19	22.80	506	506	.0512
20	19.20	33.740	4.49							20	19.20	33.740	4.49	24.28	365	365	.0949
30	14.90	34.440	4.31							30	14.90	34.440	4.31	25.58	241	242	.1253
50	13.86	*****	4.04							50	13.86	*****	4.04	*****	***	***	*****
75	12.67	34.470	4.49							75	12.67	34.470	4.49	26.07	195	197	*****
100	10.00	34.380	4.49							100	10.00	34.380	4.49	26.49	155	157	*****
125	4.20	34.240	4.48							125	4.20	34.240	4.48	27.18	89	90	*****
145	1.82	34.230	4.58														

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , JI RI SAN , STATION 209-06 , 35-41.3. N, 120-49.0. E, AUG.14.1980, 16.55 KST, DEPTH 250 , COLOR 3, TPANS. 12. ,																	
WAVE 1, SWELL 1, WIND SW 3, BARO 1006. , AIR TEMP. DRY 25.6, WET . , CLOUD. TYPE NS, AMT 9, WEATHER C ,																	
0	22.18	33.000	4.49							0	22.18	33.000	4.49	22.67	519	518	.0000
10	22.09	32.970	4.60							10	22.09	32.970	4.60	22.67	518	518	.0519
20	19.85	33.590	4.69							20	19.85	33.590	4.69	22.75	416	416	.0986
30	17.38	33.710	4.54							30	17.38	33.710	4.54	24.46	348	349	.1370
50	15.49	33.900	4.69							50	15.49	33.900	4.69	25.04	293	294	.2014
75	13.29	34.390	4.99							75	13.29	34.390	4.99	25.88	213	214	.2650
100	12.15	34.450	4.84							100	12.15	34.450	4.84	26.15	187	189	.3156
125	12.10	34.470	4.94							125	12.10	34.470	4.94	26.18	185	187	.3627
150	5.87	34.340	5.08							150	5.87	34.340	5.08	27.07	100	102	.3989
200	4.35	34.310	5.01							200	4.35	34.310	5.01	27.22	85	87	.4463
245	1.48	34.180	5.27														

KOREA , JI RI SAN , STATION 209-07 , 35-36.8. N, 130-00.3. E, AUG.14.1980, 16.30 KST, DEPTH 250 , COLOR 3, TPANS. 12.0,																	
WAVE 2, SWELL 2, WIND SW 3, BARO 1006. , AIR TEMP. DRY 25.6, WET . , CLOUD. TYPE NS, AMT 9, WEATHER C ,																	
0	22.50	33.280	4.77							0	22.50	33.280	4.77	22.79	507	507	.0000
10	21.48	33.200	4.99							10	21.48	33.200	4.99	23.02	486	486	.0497
20	20.22	33.270	5.21							20	20.22	33.270	5.21	23.41	448	449	.0964
30	19.04	33.350	4.97							30	19.04	33.350	4.97	23.76	415	416	.1397
50	14.31	33.380	4.79							50	14.31	33.380	4.79	24.89	307	308	.2121
75	13.07	33.490	4.70							75	13.07	33.490	4.70	25.23	275	276	.2852
100	12.80	33.450	4.69							100	12.80	33.450	4.69	25.24	274	276	.3843
125	12.00	33.270	5.09							125	12.00	33.270	5.09	25.27	271	274	.4231
150	5.97	*****	5.19							150	5.97	*****	5.19	*****	***	***	*****
200	3.19	32.150	*****							200	3.19	33.150	*****	26.42	162	163	*****
245	1.48	32.110	5.59														

OBSERVED																		INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

KOREA ,JI PI SAN , STATION 209-08 , 35-30.8. N, 130-16.9. E, AUG.14.1980, 18.30 KST, DEPTH 200 , COLOR 3, TRANS. 10.0,
WAVE 2, SWELL 2, WIND S 3, BARO 1007. , AIR TEMP. DRY 25.4, WET . , CLOUD. TYPE NS, AMT 8, WEATHER C ,

0	22.20	33.330	5.17							0	22.20	33.330	5.17	22.02	495	495	.0000
10	22.15	33.260	5.15							10	22.15	33.260	5.15	22.08	499	499	.0497
20	20.10	33.250	5.19							20	20.10	33.250	5.19	23.42	447	447	.0971
30	19.29	34.400	5.39							30	19.29	34.400	5.39	24.51	343	344	.1367
50	14.88	34.040	5.38							50	14.88	34.040	5.38	25.28	270	271	.1983
75	13.70	34.390	4.49							75	13.70	34.390	4.49	25.80	221	222	.2601
100	12.62	34.520	4.39							100	12.62	34.520	4.39	26.12	190	193	.3121
125	12.60	34.550	5.53							125	12.60	34.550	5.53	26.14	188	191	.3601
150	5.19	34.490	5.98							150	5.19	34.490	5.98	27.27	81	82	.3943
195	1.50	34.470	5.88														

KOREA ,JI PI SAN , STATION 209-00 , 35-24.4. N, 130-33.5. E, AUG.14.1980, 20.30 KST, DEPTH 150 , COLOR , TRANS. . ,
WAVE 2, SWELL 2, WIND S 4, BARO 1006. , AIR TEMP. DRY 24.0, WET . , CLOUD. TYPE NS, AMT 8, WEATHER C ,

0	22.55	33.540	4.98							0	22.55	33.540	4.98	22.98	489	489	.0000
10	21.55	33.440	5.45							10	21.55	33.440	5.45	27.18	470	470	.0480
20	21.25	33.440	5.29							20	21.25	33.440	5.29	23.26	462	463	.0947
30	20.35	33.940	5.73							30	20.35	33.940	5.73	23.88	403	404	.1380
50	16.45	34.440	6.68							50	16.45	34.440	6.68	25.23	274	275	.2061
75	14.76	34.600	6.09							75	14.76	34.600	6.09	25.73	227	228	.2692
100	11.47	34.520	5.98							100	11.47	34.520	5.98	26.34	170	172	.3193
125	9.95	34.490	6.06							125	9.95	34.490	6.06	26.58	146	148	.3504
145	9.50	34.530	5.88														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , JI PI SAN , STATION 209-10 , 35-17.8. N, 130-50.0. E, AUG.14.1980, 02.30 KST, DEPTH 140 , COLOR , TPANS. ,																		
WAVE ? , SWELL , WIND S 4, EASO 1006. , AIP TEMP. DRY 24.0, WFT , CLOUD. TYPE , AMT , WEATHER C ,																		
0	21.79	37.690	4.99							0	21.79	33.690	4.99	23.30	458	458	.0000	
10	21.84	34.180	6.48							10	21.84	34.180	6.48	23.66	424	424	.0442	
20	19.42	34.220	4.49							20	19.42	34.220	4.49	24.34	360	360	.0834	
30	17.39	34.320	6.58							30	17.39	34.320	6.58	24.92	304	305	.1167	
50	16.38	34.490	6.09							50	16.38	34.490	6.09	25.29	269	270	.1743	
75	17.71	34.580	5.88							75	13.71	34.580	5.88	25.94	207	209	.2343	
100	11.86	34.560	5.60							100	11.86	34.560	5.60	26.29	174	176	.2824	
125	10.13	34.490	5.78							125	10.13	34.490	5.78	26.55	149	151	.3234	
135	9.17	34.460	6.25															
KOREA , JI PI SAN , STATION 209-11 , 35-11.6. N, 131-06.6. E, AUG.15.1980, 00.30 KST, DEPTH 140 , COLOR , TPANS. ,																		
WAVE ? , SWELL 2, WIND S 4, EASO 1006. , AIP TEMP. DRY 23.7, WFT , CLOUD. TYPE , AMT 10, WEATHER C ,																		
0	21.94	37.640	5.24							0	21.94	33.640	5.24	23.22	466	466	.0000	
10	22.13	33.530	5.29							10	22.13	33.530	5.29	23.09	479	479	.0473	
20	21.64	34.370	5.20							20	21.64	34.370	5.20	23.86	405	405	.0915	
30	17.15	34.370	5.19							30	17.15	34.370	5.19	25.01	295	296	.1266	
50	14.45	34.420	5.49							50	14.45	34.420	5.49	25.66	233	234	.1798	
75	11.46	34.490	5.98							75	11.46	34.490	5.98	26.31	172	173	.2308	
100	9.28	34.530	5.93							100	9.28	34.530	5.93	26.73	133	134	.2694	
125	8.40	34.550	5.08							125	8.40	34.550	5.08	26.88	118	120	.3012	
135	7.18	34.540	5.49															

OBSERVED																	INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

10월(October)

KOREA , JI PI SAN , STATION 209-04 , 35-47.3. N, 129-32.8. E, OCT.16.1980, 09.20 KST, DEPTH 64 , COLOR 3, TPANS. 15. ,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1019. , AIR TEMP. DRY 21.2, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C. ,

0	20.64	33.300	4.49							0	20.64	33.300	4.49	23.32	457	456	.0000
10	20.70	33.240	6.18							10	20.70	33.240	6.18	23.26	463	463	.0460
20	20.69	33.240	5.59							20	20.69	33.240	5.59	23.26	462	463	.0923
30	20.44	33.360	5.12							30	20.44	33.360	5.12	23.42	447	448	.1379
50	13.42	34.070	4.71							50	13.42	34.070	4.71	25.61	239	240	.2067
60	9.27	34.210	6.10														

KOREA , JI PI SAN , STATION 209-05 , 35-45.4. N, 129-38.4. E, OCT.16.1980, 10.15 KST, DEPTH 150 , COLOR 3, TPANS. 14.0,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1019. , AIR TEMP. DRY 21.0, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C. ,

0	21.25	33.630	5.78							0	21.25	33.630	5.78	23.41	448	448	.0000
10	21.30	33.630	6.66							10	21.30	33.630	6.66	23.39	450	450	.0449
20	21.27	33.620	5.98							20	21.27	33.620	5.98	23.39	450	450	.0900
30	20.57	33.550	4.02							30	20.57	33.550	4.02	23.53	437	437	.1344
50	15.10	34.450	4.31							50	15.10	34.450	4.31	25.55	245	246	.2028
75	13.55	34.510	5.69							75	13.55	34.510	5.69	25.92	209	211	.2600
100	6.44	34.260	6.13							100	6.44	34.260	6.13	26.93	113	114	.3007
125	2.42	34.140	5.39							125	2.42	34.140	5.39	27.27	81	81	.3252
145	1.91	33.780	5.88														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA , JI FI SAN , STATION 209-06 , 35-41.2° N, 130-49.0° E, OCT-16, 1980, 11:45 PST, DEPTH 250 , COLOR 6, TRANS. 15.0,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1016. , AIR TEMP. 21.7, WET , CLOUD. TYPE MS, AMT 10, WEATHER C ,
 0 21.50 37.890 5.42 0 21.50 37.890 6.42 23.53 436 476 .0000
 10 21.83 37.910 6.13 10 21.83 37.910 6.13 23.46 443 443 .0440
 20 21.85 37.920 6.48 20 21.85 37.920 6.48 23.46 443 444 .0884
 30 21.90 37.910 5.61 30 21.90 37.910 5.61 23.44 445 446 .1329
 50 21.63 37.890 5.15 50 21.63 37.890 5.15 23.50 440 441 .2217
 75 17.50 34.240 4.07 75 17.50 34.240 4.07 24.83 313 314 .3162
 100 14.90 34.360 4.80 100 14.90 34.360 4.80 25.54 246 248 .3867
 125 10.13 34.370 6.08 125 10.13 34.370 6.08 26.46 158 160 .4378
 150 7.86 34.180 5.41 150 7.86 34.180 5.41 27.17 90 91 .4694
 200 1.20 34.070 5.75 200 1.20 34.070 5.75 27.31 77 77 .5118
 245 .05 34.070 5.78

KOREA , JI FI SAN , STATION 209-07 , 35-36.2° N, 130-00.3° E, OCT-16, 1980, 13:15 PST, DEPTH 250 , COLOR 7, TRANS. 13.0,
 WAVE 1, SWELL 1, WIND SW 3, BARO 1016. , AIR TEMP. 20.7, WET , CLOUD. TYPE MS, AMT 8, WEATHER C ,
 0 21.80 37.820 5.83 0 21.80 37.820 5.83 23.40 440 449 .0000
 10 21.75 37.820 6.42 10 21.75 37.820 6.42 23.41 443 448 .0449
 20 21.80 37.800 6.43 20 21.80 37.800 6.43 23.38 451 451 .0899
 30 21.49 37.750 6.45 30 21.49 37.750 6.45 23.43 446 447 .1348
 50 16.21 34.450 5.05 50 16.21 34.450 5.05 25.30 268 269 .2065
 75 10.40 34.370 5.88 75 10.40 34.370 5.88 26.41 162 164 .2608
 100 6.45 34.250 5.21 100 6.45 34.250 5.21 26.02 114 115 .2957
 125 1.00 34.140 5.60 125 1.00 34.140 5.60 27.21 77 77 .3108
 150 1.32 34.090 5.88 150 1.32 34.090 5.88 27.31 77 77 .3391
 200 .00 34.090 5.71 200 .00 34.090 5.71 27.34 75 75 .3772
 245 .00 34.080 5.74

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , JI RI SAN , STATION 209-08 , 35-30.0. N, 120-16.9. E, OCT.16.1960, 15.15 VST, DEPTH 200 , COLOR 3, TRANS. 12.0.
 WAVE , SUELL , WIND SW 2, BARO 1017.5, AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE , AMT 10, WEATHER C ,

0	21.14	37.570	5.59							0	21.14	37.570	5.59	23.39	450	450	.0000
10	21.05	37.560	5.69							10	21.05	37.560	5.69	23.41	448	448	.0450
20	21.10	37.530	5.80							20	21.10	37.530	5.80	23.37	452	452	.0900
30	17.70	34.180	5.78							30	17.70	34.180	5.78	24.74	321	322	.1288
50	16.12	34.420	4.66							50	16.12	34.420	4.66	25.29	269	270	.1881
75	12.58	34.490	6.04							75	12.58	34.490	6.04	26.10	192	193	.2461
100	10.05	34.440	6.23							100	10.05	34.440	6.23	26.53	151	153	.2895
125	8.72	34.390	6.34							125	8.72	34.390	6.34	26.71	134	136	.3259
150	4.42	34.230	6.37							150	4.42	34.230	6.37	27.15	92	93	.3547
195	1.30	34.180	5.76														

KOREA , JI RI SAN , STATION 209-09 , 35-24.4. N, 130-13.5. E, OCT.16.1960, 17.15 KST, DEPTH 150 , COLOR 3, TRANS. 15.0.
 WAVE , SUELL , WIND SW 1, BARO 1017.5, AIR TEMP. DRY 19.7, WET . , CLOUD. TYPE NS, AMT , WEATHER C ,

0	21.10	37.510	5.37							0	21.10	37.510	5.37	23.36	453	453	.0000
10	21.14	37.470	5.90							10	21.14	37.470	5.90	23.31	457	457	.0456
20	21.05	37.460	6.27							20	21.05	37.460	6.27	23.73	456	456	.0913
30	20.55	37.420	5.88							30	20.55	37.420	5.88	27.43	446	446	.1364
50	17.05	34.100	5.60							50	17.05	34.100	5.60	24.62	333	334	.2146
75	14.40	34.450	4.95							75	14.40	34.450	4.95	25.70	230	232	.2855
100	12.08	34.470	4.90							100	12.08	34.470	4.90	26.18	184	186	.3379
125	5.89	34.440	5.23							125	5.89	34.440	5.23	26.55	149	151	.3802
145	2.21	34.300	5.18														

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA , JI PI SAN , STATION 209-10 , 35-17.8. N, 130-50.0. E, OCT.16.1980, 19.15 KST, DEPTH 140 , COLOR , TRANS. . .																								
WAVE , SWELL , WIND SW 1, EARD 1017.5, AIP TEMP. DRY 10.5, WET . , CLOUD. TYPE , AMT , WEATHER C ,																								
0	22.48	37.600	5.78							0	22.48	37.600	5.78	27.04	483	483	.0000							
10	21.45	37.550	5.78							10	21.45	37.550	5.78	23.29	459	459	.0472							
20	21.49	37.490	5.98							20	21.49	37.490	5.98	23.23	465	465	.0924							
30	20.30	34.340	5.73							30	20.30	34.340	5.73	24.20	373	373	.1354							
50	19.25	34.470	6.23							50	19.25	34.470	6.23	24.57	337	337	.2067							
75	14.63	34.480	6.36							75	14.63	34.480	6.36	25.67	233	234	.2785							
100	11.72	34.410	6.39							100	11.72	34.410	6.39	26.20	182	184	.3309							
125	7.87	37.610	5.15							125	7.87	37.610	5.15	26.22	180	192	.3768							
135	5.71	37.570	6.23																					
KOREA , JI PI SAN , STATION 209-11 , 35-11.4. N, 131-06.6. E, OCT.16.1980, 21.15 KST, DEPTH 140 , COLOR , TRANS. . .																								
WAVE , SWELL , WIND SW 1, EARD 1017. , AIP TEMP. DRY 10.2, WET . , CLOUD. TYPE , AMT , WEATHER ,																								
0	22.70	37.670	5.97							0	22.70	37.670	5.97	27.03	484	484	.0000							
10	21.70	37.660	5.30							10	21.70	37.680	5.30	23.32	457	457	.0471							
20	21.65	37.670	5.69							20	21.65	37.670	5.69	23.33	456	456	.0928							
30	21.55	37.680	5.57							30	21.55	37.680	5.57	23.26	453	453	.1383							
50	17.75	34.070	5.48							50	17.75	34.070	5.48	24.64	331	332	.2169							
75	14.50	34.440	4.81							75	14.50	34.440	4.81	25.67	233	235	.2879							
100	12.78	34.430	5.98							100	12.78	34.430	5.98	26.01	200	202	.3426							
125	11.30	34.470	5.59							125	11.30	34.470	5.59	26.33	170	173	.3896							
135	9.05	34.380	5.32																					

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

12월(December)

KOREA , JI PI SAN , STATION 209-04 , 35-47.3. N, 120-32.8. E, DEC.11.1980, 13.20 KST, DEPTH 64 , COLOR 5, TRANS. 6.0,
 WAVE 1, SWELL 1, WIND SE 3, BARO 1016. , AIR TEMP. DRY 13.6, WET . , CLOUD. TYPE CI, AMT 9, WEATHER C ,

0	14.75	33.870	6.18							0	14.75	33.870	6.18	25.18	280	290	.0000
10	14.75	34.120	6.16							10	14.75	34.120	6.16	25.37	262	261	.0271
20	17.85	34.150	5.88							20	13.85	34.150	5.88	25.58	241	241	.0523
30	13.25	34.160	5.86							30	13.25	34.160	5.86	25.71	229	229	.0759
50	13.25	34.300	5.93							50	13.25	34.300	5.93	25.82	219	219	.1208
60	10.95	34.290	5.75														

KOREA , JI PI SAN , STATION 209-05 , 35-45.4. N, 120-38.4. E, DEC.11.1980, 12.20 KST, DEPTH 150 , COLOR 3, TRANS. 14.0,
 WAVE 1, SWELL 1, WIND SW 3, BARO 1017. , AIR TEMP. DRY 14.5, WET . , CLOUD. TYPE . , AMT , WEATHER E ,

0	15.85	33.900	6.40							0	15.85	33.900	6.40	24.96	301	300	.0000
10	15.90	33.850	6.37							10	15.90	33.850	6.37	24.91	305	305	.0303
20	15.00	34.010	5.93							20	15.00	34.010	5.93	25.23	275	275	.0594
30	14.94	34.010	5.48							30	14.94	34.010	5.48	25.24	273	274	.0869
50	13.60	34.000	5.38							50	13.60	34.000	5.38	25.52	247	248	.1392
75	5.15	34.220	5.07							75	5.15	34.220	5.07	27.06	101	101	.1830
100	3.50	34.110	5.20							100	3.50	34.110	5.20	27.15	92	93	.2074
125	2.46	34.070	5.38							125	2.46	34.070	5.38	27.21	86	87	.2209
145	2.15	34.780	5.56														

OBSERVED																	INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY						
KOREA , STATION 209-06 , 35-41.3. N, 120-49.0. E, DEC.11.1980, 10.50 KST, DEPTH 250 , COLOR 4, TRANS. 14.0, WAVE 1, SWELL 1, WIND SW 3, BARO 1017. , AIR TEMP. DRY 12.0, WET . , CLOUD. TYPE AS, AMT 4, WEATHER P ,																							
0	16.35	34.040	6.23							0	16.35	34.040	6.23	24.95	301	301	.0000						
10	16.65	34.070	6.08							10	16.65	34.070	6.08	24.90	306	306	.0304						
20	16.65	33.940	5.98							20	16.65	33.940	5.98	24.90	315	315	.0615						
30	16.50	33.900	6.48							30	16.50	33.900	6.48	24.81	315	315	.0931						
50	16.15	33.940	5.87							50	16.15	33.940	5.87	24.92	304	305	.1553						
75	13.45	34.140	5.68							75	13.45	34.140	5.68	25.66	234	276	.2230						
100	9.15	34.050	5.29							100	9.15	34.050	5.29	26.37	166	168	.2736						
125	4.85	34.090	5.26							125	4.85	34.090	5.26	26.09	107	108	.3082						
150	2.20	34.040	5.38							150	2.20	34.040	5.38	27.21	87	87	.3327						
200	1.60	34.010	5.80							200	1.60	34.010	5.80	27.23	85	85	.3759						
- 245	1.15	34.050	5.53																				

KOREA , STATION 209-07 , 35-36.8. N, 130-00.3. E, DEC.11.1980, 09.20 KST, DEPTH 250 , COLOR 3, TRANS. 14.0, WAVE 1, SWELL 1, WIND SW 4, BARO 1017. , AIR TEMP. DRY 12.0, WET . , CLOUD. TYPE AS, AMT 4, WEATHER EC,																	
0	17.15	33.890	5.64							0	17.15	33.890	5.64	24.65	330	330	.0000
10	17.10	34.010	5.68							10	17.10	34.010	5.68	24.75	320	320	.0325
20	17.13	34.000	5.90							20	17.13	34.000	5.90	24.74	322	322	.0647
30	17.10	34.210	6.15							30	17.10	34.210	6.15	24.90	306	306	.0962
50	17.10	34.110	6.18							50	17.10	34.110	6.18	24.83	313	314	.1583
75	17.25	34.060	6.30							75	17.25	34.060	6.30	24.75	320	322	.2379
100	16.55	*****	6.00							100	16.55	*****	6.00	*****	***	***	*****
125	15.40	33.860	5.93							125	15.40	33.860	5.93	25.03	294	207	*****
150	2.00	34.020	5.73							150	2.00	34.020	5.73	27.21	87	87	*****
200	1.70	34.150	5.91							200	1.30	34.150	5.91	27.36	72	72	*****
245	1.10	34.250	5.08														

OBSERVED																		INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

KOREA JI PI SAN , STATION 209-00 , 35-30.8. N, 130-16.9. E, DEC.11.1980, 07.20 PST, DEPTH 200 , COLOP , TRANS. . .

WAVE 7, SWELL 2, WIND SW 4, BARO 1017. , AIR TEMP. DRY 12.7, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	15.34	33.020	6.28							0	15.34	33.920	6.28	25.08	288	288	.0000
10	15.41	34.020	5.80							10	15.41	34.020	5.80	25.15	283	283	.0286
20	15.50	34.000	5.90							20	15.50	34.000	5.90	25.11	286	286	.0571
30	14.42	34.210	5.64							30	14.42	34.210	5.64	25.51	248	249	.0839
50	14.40	34.100	5.80							50	14.40	34.100	5.80	25.43	256	257	.1345
75	14.34	34.060	5.48							75	14.34	34.060	5.48	25.41	252	259	.1992
100	13.77	34.300	5.27							100	13.77	34.300	5.27	25.71	229	231	.2606
125	17.00	34.270	5.16							125	13.90	34.270	5.16	25.66	233	236	.3191
150	13.42	34.250	4.56							150	13.42	34.250	4.56	25.75	225	229	.3774
195	5.34	34.260	4.58														

KOREA JI PI SAN , STATION 209-00 , 35-24.4. N, 130-33.5. E, DEC.11.1980, 05.20 PST, DEPTH 150 , COLOP , TRANS. . .

WAVE 2, SWELL 2, WIND W 5, BARO 1018. , AIR TEMP. DRY 13.0, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	16.20	33.910	6.38							0	16.20	33.910	6.38	24.88	308	307	.0000
10	16.58	34.120	6.40							10	16.58	34.120	6.40	24.96	301	301	.0304
20	15.38	34.100	6.28							20	15.38	34.100	6.28	25.21	276	276	.0593
30	15.15	34.070	6.30							30	15.15	34.070	6.30	25.24	273	274	.0869
50	14.00	34.010	6.13							50	14.90	34.010	6.13	25.25	273	274	.1418
75	14.60	33.960	6.03							75	14.60	33.960	6.03	25.28	270	272	.2101
100	14.49	34.060	6.18							100	14.49	34.060	6.18	25.38	261	263	.2771
125	14.25	34.120	5.86							125	14.25	34.120	5.86	25.47	251	254	.3418
145	17.32	34.150	5.80														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,JI PI SAN , STATION 209-10 , 35-17.8. N, 130-50.0. E, DEC.11.1980, 03.20 KST, DEPTH 140 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 2, WIND W 5, BARO 1017. , AIP TEMP. DRY 12.7, WET , , CLOUD. TYPE , AMT , WEATHER C ,																	
0	15.30	33.900	6.21							0	15.30	33.900	6.21	25.08	289	289	.0000
10	15.85	33.860	6.37							10	15.85	33.860	6.37	24.93	304	304	.0297
20	15.70	33.820	6.30							20	15.70	33.820	6.30	24.93	303	304	.0601
30	15.10	33.870	6.23							30	15.10	33.870	6.23	25.10	287	288	.0897
50	14.90	33.910	6.24							50	14.90	33.910	6.24	25.17	280	281	.1466
75	14.85	33.920	6.30							75	14.85	33.920	6.30	25.19	278	280	.2169
100	14.54	33.970	6.32							100	14.54	33.970	6.32	25.30	268	271	.2858
125	14.40	34.000	6.27							125	14.40	34.000	6.27	25.35	263	266	.3530
135	14.05	34.130	5.98														
KOREA ,JI PI SAN , STATION 209-11 , 35-11.4. N, 131-06.6. E, DEC.11.1980, 01.20 KST, DEPTH 140 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 2, WIND SW 5, BARO 1018. , AIP TEMP. DRY 11.3, WET , , CLOUD. TYPE , AMT , WEATHER C ,																	
0	15.94	34.030	5.68							0	15.94	34.030	5.68	25.04	293	293	.0000
10	16.54	34.100	5.98							10	16.54	34.100	5.98	24.95	301	301	.0297
20	16.25	34.290	6.30							20	16.25	34.290	6.30	25.16	281	281	.0589
30	16.15	34.310	6.55							30	16.15	34.310	6.55	25.20	277	278	.0869
50	16.25	34.390	6.18							50	16.25	34.390	6.18	25.24	274	275	.1423
75	16.15	34.420	6.31							75	16.15	34.420	6.31	25.29	269	271	.2106
100	16.15	34.410	6.28							100	16.15	34.410	6.28	25.28	270	273	.2787
125	15.95	34.410	6.40							125	15.95	34.410	6.40	25.32	266	269	.3465
135	15.15	34.360	5.58														

208선 해양관측성적

Oceanographic Data. Line 208

Oceanographic Data. Line 600																	
OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , JI PI SAN , STATION 208-01 , 35-28.5. N, 129-27.3. E, FEB.13.1980, 11.00 KST, DEPTH 70 , COLOR 2, TRANS. 10.0,
 WAVE 2, SWELL 2, WIND NW 3, BARO 1029. , AIR TEMP. DRY 3.2, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,

0	12.01	34.560	7.07							0	12.01	34.560	7.07	26.26	176	176	.0000
10	12.25	34.560	7.05							10	12.25	34.560	7.05	26.22	181	181	.0179
20	12.20	34.660	6.44							20	12.20	34.660	6.44	26.31	172	173	.0356
30	12.19	34.570	6.74							30	12.19	34.570	6.74	26.24	179	179	.0532
50	12.13	34.540	6.74							50	12.13	34.540	6.74	26.23	180	181	.0893
65	11.90	34.600	6.74														

KOREA , JI PI SAN , STATION 208-02 , 35-24.3. N, 129-33.8. E, FEB.13.1980, 09.40 KST, DEPTH 130 , COLOR 2, TRANS. 12.0,
 WAVE 2, SWELL 2, WIND NW 3, BARO 1030. , AIR TEMP. DRY 3.3, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,

0	12.00	34.640	7.10							0	12.00	34.640	7.10	26.33	170	170	.0000
10	12.11	34.610	7.17							10	12.11	34.610	7.17	26.28	174	174	.0173
20	12.15	34.570	7.09							20	12.15	34.570	7.09	26.25	178	178	.0349
30	12.20	34.590	7.15							30	12.20	34.590	7.15	26.25	178	178	.0528
50	12.19	34.630	7.10							50	12.19	34.630	7.10	26.28	174	175	.0882
75	12.01	34.590	7.07							75	12.01	34.590	7.07	26.29	174	176	.1322
100	12.03	34.540	6.15							100	12.03	34.540	6.15	26.25	178	180	.1748
125	11.92	34.580	6.14							125	11.92	34.580	6.14	26.30	173	176	.2214

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA JI RI SAN , STATION 208-03 , 35-17.8. N, 129-42.9. E, FEB.13.1980, 06.00 KST, DEPTH 150 , COLOR 2, TRANS. 12.0, WAVE 2, SWELL 2, WIND NW 3, BARO 1030. , AIR TEMP. DRY 3.5, WET . , CLOUD. TYPE AC, AMT 2, WEATHER B ,																	
0	12.05	34.630	7.03							0	12.05	34.630	7.03	26.31	172	172	.0000
10	12.12	34.610	6.54							10	12.12	34.610	6.54	26.28	175	175	.0174
20	12.17	*****	6.90							20	12.17	*****	6.90	*****	***	***	*****
30	12.23	34.610	6.76							30	12.23	34.610	6.76	26.26	177	177	*****
50	12.42	34.630	6.79							50	12.42	34.630	6.79	26.24	179	180	*****
75	12.21	34.630	6.54							75	12.21	34.630	6.54	26.28	175	176	*****
100	12.11	34.600	6.91							100	12.11	34.600	6.91	26.28	175	177	*****
125	12.07	34.630	6.49							125	12.07	34.630	6.49	26.31	172	175	*****
KOREA JI RI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E, FEB.13.1980, 06.20 KST, DEPTH 143 , COLOR , TRANS. , WAVE 2, SWELL 2, WIND NW 3, BARO 1028. , AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE , AMT , WEATHER B ,																	
0	11.59	34.690	6.54							0	11.59	34.690	6.54	26.44	159	159	.0000
10	12.00	34.500	6.33							10	12.00	34.500	6.33	26.22	180	180	.0170
20	12.05	34.560	6.46							20	12.05	34.560	6.46	26.26	177	177	.0349
30	12.19	34.460	6.84							30	12.19	34.480	6.84	26.17	185	186	.0531
50	12.25	34.580	6.90							50	12.25	34.580	6.90	26.23	179	180	.0898
75	12.27	34.450	6.70							75	12.27	34.450	6.70	26.13	189	191	.1363
100	12.40	34.460	7.00							100	12.40	34.460	7.00	26.11	191	193	.1844
125	12.35	34.420	6.88							125	12.35	34.420	6.88	26.09	193	196	.2330
140	12.01	34.630	6.51														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KORFA , STATION 208-05 , 35-04.8. N, 130-02.0. E, FEB.17.1980, 04.40 KST, DEPTH 140 , COLOR , TRANS. . .																	
WAVE 1, SWELL 2, WIND NW 3, BARO 1026. , AIR TEMP. DRY 4.0, WET . , CLOUD. TYPE , AMT , WEATHER B ,																	
0	12.14	34.530	6.74							0	12.14	34.530	6.74	26.22	181	181	.0000
10	12.25	34.630	6.39							10	12.25	34.630	6.39	26.27	175	175	.0178
20	12.20	34.750	6.73							20	12.20	34.750	6.73	26.38	166	166	.0350
30	12.41	34.650	6.54							30	12.41	34.650	6.54	26.26	177	177	.0522
50	12.41	34.400	6.49							50	12.41	34.400	6.49	26.06	195	196	.0896
75	12.40	34.430	6.39							75	12.40	34.430	6.39	26.09	193	194	.1386
100	12.40	34.520	6.74							100	12.40	34.520	6.74	26.16	186	186	.1866
125	12.22	34.580	6.82							125	12.22	34.580	6.82	26.24	179	181	.2330
135	12.16	34.590	6.56														
KOREA , STATION 208-06 , 34-58.2. N, 130-11.9. E, FEB.13.1980, 03.00 KST, DEPTH 135 , COLOR , TRANS. . .																	
WAVE 1, SWELL 1, WIND NW 3, BARO 1025. , AIR TEMP. DRY 6.0, WET . , CLOUD. TYPE , AMT , WEATHER B ,																	
0	11.34	34.610	6.90							0	11.34	34.610	6.90	26.43	161	160	.0000
10	11.39	34.620	6.84							10	11.39	34.620	6.84	26.43	161	161	.0161
20	12.01	34.620	6.84							20	12.01	34.620	6.84	26.31	172	172	.0328
30	12.03	34.520	6.54							30	12.03	34.520	6.54	26.23	180	180	.0504
50	11.85	34.600	6.27							50	11.85	34.600	6.27	26.33	170	171	.0857
75	12.01	34.590	6.36							75	12.01	34.590	6.36	26.29	174	176	.1292
100	12.05	34.650	6.56							100	12.05	34.650	6.56	26.33	170	172	.1728
125	11.05	34.640	6.65							125	11.95	34.640	6.65	26.34	169	172	.2160
KOREA , STATION 208-07 , 34-53.0. N, 130-20.9. E, FEB.17.1980, 01.20 KST, DEPTH 130 , COLOR , TRANS. . .																	
WAVE 1, SWELL 1, WIND NW 3, BARO 1023.5, AIR TEMP. DRY 7.0, WET . , CLOUD. TYPE , AMT , WEATHER B ,																	
0	12.55	34.550	6.49							0	12.55	34.550	6.49	26.15	187	197	.0000
10	12.25	34.630	6.59							10	12.25	34.630	6.59	26.27	175	175	.0182

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	12.36	34.620	6.64							20	12.36	34.620	6.64	26.24	178	178	.0359
30	12.42	34.640	6.69							30	12.42	34.640	6.69	26.25	178	178	.0528
50	12.46	*****	6.73							50	12.46	*****	6.73	*****	***	***	*****
75	12.49	*****	6.84							75	12.49	*****	6.84	*****	***	***	*****
100	12.45	*****	6.97							100	12.45	*****	6.97	*****	***	***	*****
125	12.39	34.540	6.74							125	12.39	34.540	6.74	26.18	185	187	*****
KOREA JI PI SAN , STATION 208-08 , 34-45.3, N, 130-30.6, E, FEB.12.1980, 23.40 KST, DEPTH 130 , COLOR , WEATHER B ,																	
WAVE 1, SWELL 1, WIND NW 3, BARO 1022.5, AIR TEMP. DRY 7.2, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	12.00	34.420	6.95							0	12.00	34.420	6.95	26.16	186	186	.0000
10	11.15	34.600	7.02							10	11.15	34.600	7.02	26.46	158	158	.0173
20	11.30	34.510	6.71							20	11.30	34.510	6.71	26.36	167	167	.0336
30	11.20	34.590	6.86							30	11.20	34.590	6.86	26.44	160	160	.0500
50	11.10	34.600	6.88							50	11.10	34.600	6.88	26.47	157	158	.0819
75	10.42	34.670	6.74							75	10.42	34.670	6.74	26.64	141	142	.1105
100	9.42	34.610	6.74							100	9.42	34.610	6.74	26.76	129	131	.1537
125	8.38	34.530	6.55							125	8.38	34.530	6.55	26.87	119	121	.1853
KOREA JI PI SAN , STATION 208-09 , 34-35.0, N, 130-40.5, E, FEB.12.1980, 22.00 KST, DEPTH 130 , COLOR , WEATHER B ,																	
WAVE 1, SWELL 1, WIND W 3, BARO 1022.5, AIR TEMP. DRY 6.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	11.78	34.560	6.95							0	11.78	34.560	6.95	26.31	172	172	.0000
10	11.35	34.600	6.44							10	11.35	34.600	6.44	26.42	162	161	.0167
20	11.28	34.600	6.87							20	11.28	34.600	6.87	26.43	160	160	.0329
30	11.00	34.500	6.87							30	11.00	34.580	6.87	26.47	157	157	.0488
50	10.52	*****	6.27							50	10.52	*****	6.27	*****	***	***	*****
75	10.03	34.490	6.14							75	10.03	34.490	6.14	26.57	147	149	.0888
100	9.62	34.420	6.82							100	9.62	34.420	6.82	26.58	146	148	.1488
125	9.52	34.420	6.76							125	9.52	34.420	6.76	26.60	144	147	.1888

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

4 월(April)

KOREA , JI PI SAN , STATION 208-01 , 35-28.5. N, 129-27.3. E, APP. 17.1980, 15.50 KST, DEPTH 70 , COLOR 4, TRANSP. 17.0,
 WAVE 1, SWELL 1, WIND NE 2, EARO 1017.5, AIR TEMP. DRY 12.5, WET . , CLOUD. TYPE NS, AMT 6, WEATHER PC,
 0 13.87 34.520 6.29 0 13.87 34.520 6.29 25.86 214 214 .0000
 10 13.71 34.520 6.36 10 13.71 34.520 6.36 25.90 211 211 .0213
 20 13.62 34.530 6.50 20 13.62 34.530 6.50 25.92 209 209 .0624
 30 13.61 34.530 6.24 30 13.61 34.530 6.24 25.92 209 209 .0633
 50 13.48 34.520 6.19 50 13.48 34.520 6.19 25.94 207 208 .1051
 65 13.02 34.500 6.09

KOREA , JI PI SAN , STATION 208-02 , 35-24.3. N, 129-33.8. E, APR. 17.1980, 17.00 KST, DEPTH 130 , COLOR 3, TRANSP. 17.0,
 WAVE 1, SWELL 1, WIND SE 2, EARO 1017.5, AIR TEMP. DRY 11.0, WET . , CLOUD. TYPE NS, AMT 6, WEATHER PC,
 0 13.60 34.520 6.30 0 13.60 34.520 6.30 25.92 209 209 .0000
 10 13.75 34.530 6.29 10 13.75 34.530 6.29 25.90 211 211 .0211
 20 13.70 34.530 6.30 20 13.70 34.530 6.30 25.91 210 211 .0422
 30 17.65 34.520 6.27 30 13.65 34.520 6.27 25.91 210 211 .0633
 50 13.52 34.520 6.34 50 13.52 34.520 6.34 25.93 208 209 .1053
 75 13.07 34.490 6.37 75 13.07 34.490 6.37 26.00 201 203 .1569
 100 12.25 34.450 6.07 100 12.25 34.450 6.07 26.13 189 191 .2062
 125 11.95 34.470 6.05 125 11.95 34.470 6.05 26.21 182 184 .2532

KOREA , JI PI SAN , STATION 208-03 , 35-17.8. N, 129-42.9. E, APR. 17.1980, 16.30 KST, DEPTH 150 , COLOR , TRANSP. ,
 WAVE 1, SWELL 1, WIND SE 2, EARO 1018. , AIR TEMP. DRY 10.5, WET . , CLOUD. TYPE NS, AMT 2, WEATHER B ,
 0 13.30 34.510 6.24 0 13.30 34.510 6.24 25.97 204 204 .0000
 10 13.50 34.510 6.29 10 13.50 34.510 6.29 25.93 208 208 .0206

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	17.20	34.510	6.49							20	13.20	34.510	6.49	25.99	202	202	.0412
30	17.20	34.500	6.26							30	13.20	34.500	6.26	25.98	203	203	.0615
50	12.63	34.460	6.19							50	12.63	34.460	6.19	26.07	195	196	.1016
75	12.13	34.460	6.34							75	12.13	34.460	6.34	26.16	186	187	.1496
100	11.97	34.450	6.03							100	11.97	34.450	6.03	26.19	184	186	.1963
125	11.86	34.450	5.89							125	11.86	34.450	5.89	26.21	182	184	.2427
145	11.00	34.420	5.87														

KOREA JI PI SAN , STATION 208-04 , 35-11.1. N, 120-52.7. E, APR.17.1980, 20.00 KST, DEPTH 143 , COLOR , TRANS. , .

WAVE	1, SWELL	1, WIND SE	3, BARO 101E.	AIP TEMP. DRY	11.0, WET	, CLOUD. TYPE	, AMT	, WEATHER B	
0	14.35	34.540	6.19			0	14.35	34.540	6.19 25.78 223 222 .0000
10	14.50	34.540	6.24			10	14.50	34.540	6.24 25.74 226 226 .0224
20	14.10	34.540	6.22			20	14.10	34.540	6.22 25.83 218 218 .0447
30	13.87	34.560	6.24			30	13.87	34.560	6.24 25.89 212 212 .0662
50	13.57	34.530	6.34			50	13.57	34.530	6.34 25.93 208 209 .1084
75	13.43	34.520	6.27			75	13.43	34.520	6.27 25.95 206 207 .1606
100	13.33	34.530	6.29			100	13.33	34.530	6.29 25.98 203 205 .2123
125	12.43	34.480	6.18			125	12.43	34.490	6.18 26.12 190 193 .2622

KOREA JI PI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, APR.17.1980, 21.30 KST, DEPTH 140 , COLOR , TRANS. , .

WAVE	1, SWELL	1, WIND SE	2, BARO 1019.5	AIP TEMP. DRY	10.2, WET	, CLOUD. TYPE	, AMT	, WEATHER B	
0	17.96	34.580	6.34			0	13.96	34.580	6.34 25.89 212 212 .0000
10	17.96	34.580	6.26			10	13.96	34.580	6.26 25.89 212 212 .0212
20	17.90	34.580	6.40			20	13.90	34.580	6.40 25.90 211 211 .0424
30	17.88	34.570	6.44			30	13.88	34.570	6.44 25.90 211 211 .0636

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
50	13.80	34.560	6.37							50	13.60	74.560	6.37	25.91	210	211	.1059	
75	12.65	34.520	6.22							75	12.65	74.520	6.22	26.11	191	193	.1565	
100	12.00	34.510	6.31							100	12.00	74.510	6.31	26.23	180	182	.2035	
125	11.77	34.510	6.07							125	11.77	74.510	6.07	26.27	176	178	.2486	
135	11.10	34.470	5.92															
KOREA , JI PI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, APR.17.1980, 23.05 KST, DEPTH 135 , COLOR , TRANS. , ,																		
WAVE 1, SWELL 1, WIND SE 2, BARO 1070. , AIR TEMP, DRY 10.9, WFT , , CLOUD, TYPE , AMT , WEATHER ,																		
0	11.95	34.490	6.29							0	11.95	74.490	6.29	26.22	180	180	.0000	
10	12.00	34.470	6.40							10	12.00	74.470	6.40	26.20	183	183	.0182	
20	12.00	34.470	6.34							20	12.00	74.470	6.34	26.20	183	183	.0365	
30	11.95	34.470	6.32							30	11.95	74.470	6.32	26.21	182	182	.0548	
50	11.13	34.460	6.37							50	11.13	74.460	6.37	26.35	168	169	.0900	
75	9.80	34.420	6.00							75	9.80	74.420	6.00	26.55	149	150	.1300	
100	9.10	34.380	6.02							100	9.10	74.380	6.02	26.64	141	143	.1667	
125	8.70	34.330	5.71							125	8.30	74.330	5.71	26.72	133	135	.2015	
KOREA , JI PI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, APR.18.1980, 00.40 KST, DEPTH 130 , COLOR , TRANS. , ,																		
WAVE 1, SWELL 1, WIND S 2, BARO 1010. , AIR TEMP, DRY 11.0, WFT , , CLOUD, TYPE , AMT , WEATHER ,																		
0	12.40	34.490	6.44							0	12.40	74.490	6.44	26.14	189	188	.0000	
10	12.28	34.500	6.39							10	12.28	74.500	6.39	26.17	186	186	.0187	
20	12.05	34.490	6.37							20	12.05	74.490	6.37	26.20	182	182	.0372	
30	11.88	34.450	6.32							30	11.88	74.450	6.32	26.20	182	182	.0555	
50	11.45	34.460	6.02							50	11.45	74.460	6.02	26.29	174	174	.0913	
75	11.06	34.430	5.83							75	11.06	74.430	5.83	26.34	169	170	.1345	
100	9.99	34.380	5.66							100	9.99	74.380	5.66	26.49	155	157	.1755	
125	9.05	34.510	5.77							125	9.05	74.510	5.77	26.75	131	133	.2118	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA JI PI CAN , STATION 208-03 , 34-43.7 N, 130-40.6 E, APR. 18, 1980, 03.45 KST, DEPTH 130 , COLOR , TRANSP.																	
WAVE , WIND SE 2, EASED 1019.4, AIP TEMP, DRY 11.0, WET , CLOUD, TYPE , AMT , WEATHER ,																	
0	12.95	34.510	6.40							0	12.95	34.510	6.40	26.04	197	197	.0000
10	12.56	34.470	6.40							10	12.56	34.470	6.40	26.09	193	193	.0195
20	12.05	34.490	6.31							20	12.05	34.490	6.31	26.20	182	182	.0384
30	11.92	34.470	6.37							30	11.92	34.470	6.37	26.21	181	182	.0566
50	11.62	34.470	6.44							50	11.62	34.470	6.44	26.27	176	177	.0926
75	11.00	34.440	6.26							75	11.00	34.440	6.26	26.36	167	169	.1359
100	10.46	34.380	6.07							100	10.46	34.380	6.07	26.41	163	164	.1776
125	9.34	34.530	5.88							125	9.34	34.530	5.88	26.72	133	136	.2153
KOREA JI PI CAN , STATION 208-03 , 34-33.9 N, 130-40.5 E, APR. 18, 1980, 03.45 KST, DEPTH 130 , COLOR , TRANSP.																	
WAVE , WIND SE 2, EASED 1019.5, AIP TEMP, DRY 11.0, WET , CLOUD, TYPE , AMT , WEATHER ,																	
0	12.69	34.530	6.31							0	12.69	34.530	6.31	26.11	191	191	.0000
10	12.56	34.520	6.39							10	12.56	34.520	6.39	26.14	189	189	.0190
20	11.92	34.520	6.09							20	11.92	34.520	6.09	26.25	178	178	.0374
30	11.67	34.520	6.36							30	11.67	34.520	6.36	26.30	173	173	.0550
50	11.00	34.520	6.19							50	11.00	34.520	6.19	26.42	161	162	.0887
75	10.98	34.520	6.25							75	10.98	34.520	6.25	26.42	161	162	.1294
100	10.23	34.470	5.93							100	10.23	34.470	5.93	26.52	152	154	.1690
125	9.02	34.360	5.88							125	9.02	34.360	5.88	27.63	141	143	.2063

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	D-DY

6 월 (June)

KOREA , JI PI CAN , STATION 208-01 , 35-20.6° N, 129-27.3° E, JUN.12.1960, 10.10 KST, DEPTH 70 , COLOR 3, TRANS. 15.0.
WAVE 1, SWELL 1, WIND SW 2, BARO 1006. , AIP TEMP. DRY 21.9, WET . , CLOUD. TYPE CI, AMT 3, WEATHER EC,
0 16.61 34.250 5.93 0 16.61 34.250 5.93 25.05 292 291 .0000
10 15.89 34.250 5.96 10 15.89 34.250 5.96 25.22 276 276 .0284
20 17.88 34.110 6.26 20 13.88 34.110 6.26 25.54 245 245 .0545
30 17.57 34.210 6.06 30 13.57 34.210 6.06 25.69 231 232 .0784
50 17.25 34.290 5.66 50 13.25 34.290 5.66 25.81 219 220 .1237
65 13.10 34.520 5.23

KOREA , JI PI CAN , STATION 208-02 , 35-24.3° N, 129-23.8° E, JUN.12.1960, 09.00 KST, DEPTH 130 , COLOR 4, TRANS. 16. ,
WAVE 1, SWELL 1, WIND SW 4, BARO 1006. , AIR TEMP. DRY 20. WET . , CLOUD. TYPE CI, AMT 3, WEATHER BC,
0 17.25 37.900 6.16 0 17.25 33.900 6.16 24.63 332 331 .0000
10 14.35 34.420 5.05 10 14.35 34.420 5.05 25.68 231 231 .0282
20 14.45 34.470 5.35 20 14.45 34.490 5.35 25.72 228 229 .0512
30 14.35 34.470 5.96 30 14.35 34.470 5.96 25.72 228 228 .0741
50 17.90 34.460 5.15 50 13.90 34.480 5.15 25.83 218 219 .1189
75 13.70 34.570 5.15 75 13.70 34.570 5.15 25.94 207 209 .1726
100 17.20 34.590 5.25 100 13.40 34.590 5.25 27.05 196 199 .2237
125 11.80 34.490 5.94 125 11.80 34.490 5.94 26.25 178 180 .2711

KOREA , JI PI CAN , STATION 208-03 , 35-17.8° N, 129-42.9° E, JUN.12.1960, 07.30 KST, DEPTH 150 , COLOR 4, TRANS. 15. ,
WAVE 1, SWELL 1, WIND SW 4, BARO 1006. , AIP TEMP. DRY 19.4, WET . , CLOUD. TYPE CI, AMT 3, WEATHER FC,
0 17.48 37.740 6.15 0 17.62 33.740 6.15 24.41 353 353 .0000
10 17.58 37.470 6.01 10 17.58 33.670 6.01 24.78 356 356 .0355

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY									

20	16.87	34.060	6.21							20	16.87	34.060	6.21	24.84	311	312	.0689
30	16.49	34.120	6.22							30	16.49	34.120	6.22	24.98	299	299	.0905
50	14.36	34.400	6.22							50	14.36	34.400	6.22	25.67	233	234	.1529
75	14.24	34.440	6.24							75	14.24	34.440	6.34	25.72	228	229	.2110
100	12.98	34.570	5.91							100	12.98	34.570	5.91	26.08	194	196	.2643
125	9.63	34.520	5.91							125	9.63	34.520	5.91	26.66	139	141	.3065
145	6.12	34.670	5.92														

KOREA , JI PI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E, JUN.12.1980, 06.00 PST, DEPTH 143 , COLOR 3, TRANSP. 15.0,
WAVE 1, SWELL 1, WIND SW 5, FART 1006. , AIR TEMP. DRY 19.5, WFT , , CLOUD. TYPE CI, AMT 5, WEATHER FC,

0	17.70	33.820	6.36							0	17.70	33.820	6.36	24.40	348	347	.0000
10	17.48	33.910	6.40							10	17.48	33.910	6.40	24.58	336	336	.0342
20	16.90	34.110	6.52							20	16.90	34.110	6.52	24.87	308	309	.0665
30	15.73	34.200	6.57							30	15.73	34.200	6.57	25.21	276	277	.0958
50	15.40	34.290	6.33							50	15.40	34.290	6.33	25.36	263	264	.1500
75	13.81	34.380	6.11							75	13.81	34.380	6.11	25.77	224	225	.2112
100	10.28	34.580	6.16							100	10.28	34.580	6.16	26.44	160	161	.2597
125	9.24	34.530	5.86							125	9.24	34.530	5.88	26.73	132	134	.2967
140	6.69	34.430	5.76														

KOREA , JI PI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, JUN.12.1980, 04.30 PST, DEPTH 140 , COLOR , TRANSP. , ,
WAVE , SWELL 1, WIND SW 5, FART 1006. , AIR TEMP. DRY 19.5, WFT , , CLOUD. TYPE , AMT , WEATHER C ,

0	17.69	34.030	6.41							0	17.69	34.030	6.41	24.66	329	328	.0000
10	17.24	34.170	6.46							10	17.24	34.170	6.46	24.84	312	312	.0320
20	16.98	34.180	6.12							20	16.98	34.180	6.12	24.91	305	305	.0629

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D-DY

30	15.87	34.220	6.95							30	15.87	34.220	6.95	25.20	278	.0922
50	15.68	34.300	6.90							50	15.68	34.300	6.90	25.30	268	.1470
75	14.64	34.430	6.46							75	14.64	34.430	6.46	25.63	237	.2105
100	9.58	34.490	5.96							100	9.58	34.490	5.96	26.64	140	.2582
125	6.79	34.530	5.89							125	6.79	34.530	5.89	27.10	97	.2824
150	5.34	34.450	5.91													

KOREA , JI PI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, JUN.12.1980, 03.05 KST, DEPTH 135 , COLOR , TPANS. ,

WAVE , SWELL 1, WIND SW 5, BARO 1006.5, AIR TEMP. DRY 19.7, WET , CLOUD, TYPE , AMT , WEATHER C ,

0	17.96	34.140	6.46							0	17.96	34.140	6.46	24.64	330	.0000
10	17.34	34.240	6.13							10	17.34	34.240	6.13	24.87	309	.0320
20	16.96	34.320	6.18							20	16.96	34.320	6.18	25.02	294	.0632
30	15.59	34.310	6.45							30	15.59	34.310	6.45	25.33	265	.0903
50	14.27	34.360	6.65							50	14.27	34.360	6.65	25.65	234	.1405
75	17.08	34.490	6.27							75	13.08	34.490	6.27	26.00	201	.1954
100	9.73	34.410	6.26							100	9.73	34.410	6.26	26.56	149	.2397
125	6.35	34.420	6.21							125	6.35	34.420	6.21	27.07	100	.2712

KOREA , JI PI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, JUN.12.1980, 01.35 KST, DEPTH 130 , COLOR , TPANS. ,

WAVE , SWELL 1, WIND SW 4, BARO 1006.5, AIR TEMP. DRY 19.7, WET , CLOUD, TYPE , AMT , WEATHER ,

0	15.24	34.220	6.43							0	15.24	34.220	6.43	24.86	309	.0000
10	17.30	34.220	6.19							10	17.30	34.220	6.19	24.86	309	.0000
20	14.29	34.360	6.31							20	16.29	34.360	6.31	25.21	277	.0000
30	15.62	34.440	6.34							30	15.62	34.440	6.34	25.42	256	.0000
50	14.20	34.220	6.36							50	14.20	34.220	6.36	25.56	243	.0000
75	17.78	34.360	6.79							75	13.78	34.360	6.79	25.76	224	.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	12.98	34.580	5.29							100	12.98	34.580	5.29	26.09	193	165	*****
125	6.95	34.510	5.56							125	6.95	34.510	5.56	27.06	101	102	*****
KOREA , JI PI SAN , STATION 208-00 , 34-45.7. N, 130-40.6. E, JUN. 12, 1980, 06.05 KST, DEPTH 130 , COLOR , TRANS. ,																	
WAVE , SWELL 1, WIND SE 2, BARO 1006. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	18.21	34.130	6.31							0	18.21	34.130	6.31	24.57	337	337	.0000
10	17.79	34.140	6.36							10	17.79	34.140	6.36	24.68	326	326	.0332
20	16.48	34.290	6.77							20	16.48	34.290	6.77	25.11	286	286	.0639
30	15.35	34.450	6.28							30	15.35	34.450	6.28	25.49	250	250	.0908
50	14.79	34.500	6.59							50	14.79	34.500	6.59	25.65	235	236	.1395
75	14.16	34.600	6.90							75	14.16	34.600	6.90	25.86	214	216	.1961
100	9.10	34.430	6.32							100	9.10	34.430	6.32	26.68	137	139	.2406
125	7.42	34.330	6.36							125	7.42	34.330	6.36	26.85	120	122	.2733
KOREA , JI PI SAN , STATION 208-00 , 34-38.9. N, 130-40.5. E, JUN. 11, 1980, 22.35 KST, DEPTH 130 , COLOR , TRANS. ,																	
WAVE , SWELL 1, WIND SE 2, BARO 1006. , AIR TEMP. DRY 20, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	18.45	33.820	6.30							0	18.45	33.820	6.30	24.28	365	365	.0000
10	16.85	33.810	6.66							10	16.85	33.810	6.66	24.66	329	329	.0348
20	17.45	33.800	6.57							20	17.45	33.800	6.57	24.51	343	344	.0684
30	16.75	34.060	6.46							30	16.75	34.060	6.46	24.87	309	309	.1011
50	15.65	34.160	6.67							50	15.65	34.160	6.67	25.20	277	279	.1600
75	14.55	34.560	5.86							75	14.55	34.560	5.86	25.75	225	227	.2233
100	14.40	34.590	5.66							100	14.40	34.590	5.66	25.80	220	222	.2796
125	7.40	34.340	5.71							125	7.40	34.340	5.71	26.86	119	121	.3227

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
8월(August)																	
KOREA , JI RI SAN , STATION 206-01 , 35-28.5. N, 120-27.3. E, AUG.15.1980, 16.40 KST, DEPTH 70 , COLOR 4, TRANSP. 12.0,																	
WAVE	1, SWELL	1, WIND SW	3, BARO 1011. , AIR TEMP. DRY 22.1, WET														
0	22.45	32.650	5.10							0	22.45	32.650	5.10	22.33	551	551	.0000
10	22.35	32.660	5.34							10	22.35	32.660	5.34	22.37	548	548	.0550
20	20.35	32.980	5.39							20	20.35	32.980	5.39	23.15	473	473	.1060
30	19.25	33.320	5.39							30	19.25	33.320	5.39	23.70	421	421	.1508
50	14.34	34.430	5.81							50	14.34	34.430	5.81	25.69	230	232	.2162
65	12.34	34.450	4.98														
KOREA , JI RI SAN , STATION 208-02 , 35-24.7. N, 120-23.8. E, AUG.15.1980, 15.30 KST, DEPTH 130 , COLOR 4, TRANSP. 12.0,																	
WAVE	1, SWELL	1, WIND NW	5, BARO 1010.5, AIR TEMP. DRY 23.0, WET														
0	22.45	32.700	5.29							0	22.45	32.700	5.29	22.37	547	547	.0000
10	22.54	32.640	5.59							10	22.54	32.640	5.59	22.30	554	554	.0551
20	21.54	32.950	5.49							20	21.54	32.950	5.49	22.81	505	506	.1082
30	21.35	33.340	5.08							30	21.35	33.340	5.08	23.16	472	473	.1571
50	15.55	34.110	4.49							50	15.55	34.110	4.49	25.18	279	280	.2325
75	14.20	34.110	4.31							75	14.20	34.110	4.31	25.48	251	253	.2962
100	13.95	34.400	4.69							100	13.95	34.400	4.69	25.75	225	227	.3593
125	10.80	34.390	4.91							125	10.80	34.390	4.91	26.36	168	170	.4091
KOREA , JI RI SAN , STATION 208-03 , 35-17.8. N, 120-42.9. E, AUG.15.1980, 14.00 KST, DEPTH 150 , COLOR 3, TRANSP. 12.0,																	
WAVE	1, SWELL	1, WIND NE	5, BARO 1010. , AIR TEMP. DRY 22.2, WET														
0	22.75	32.690	5.61							0	22.75	32.690	5.61	22.39	545	545	.0000
10	22.52	32.620	5.85							10	22.52	32.620	5.88	22.29	555	555	.0551
20	22.00	32.760	5.39							20	22.00	32.780	5.29	22.30	554	554	.1106

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	21.70	33.200	5.04							30	21.70	33.200	5.04	22.96	491	492	.1629
50	18.80	33.680	5.08							50	18.80	33.680	5.08	24.08	384	385	.2507
75	15.80	34.010	*****							75	15.80	34.010	*****	25.05	292	293	.3356
100	14.95	34.300	5.10							100	14.95	34.300	5.10	25.46	252	255	.4043
125	14.80	34.410	4.69							125	14.80	34.410	4.69	25.58	241	244	.4668
145	14.80	34.470	4.49														
KOREA , JI FI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E, AUG.15,1980, 12.30 KST, DEPTH 143 , COLOR 3, TRANS. 13.0,																	
WAVE 1, SWELL , WIND NE 4, BARO 1010. , AIR TEMP. DRY .0, WET . , CLOUD, TYPE , AMT , WEATHER R ,																	
0	22.45	32.790	5.19							0	22.45	32.790	5.19	22.44	541	541	.0000
10	22.45	32.930	5.24							10	22.45	32.930	5.24	22.54	531	531	.0536
20	21.85	33.260	5.28							20	21.85	33.260	5.28	22.96	491	491	.1048
30	22.65	33.250	5.28							30	22.65	33.250	5.28	22.73	513	514	.1551
50	21.15	33.350	4.18							50	21.15	33.350	6.18	23.22	466	467	.2533
75	19.35	33.870	4.78							75	18.35	33.870	4.78	24.34	359	361	.3570
100	16.25	34.760	4.49							100	16.25	34.360	4.49	25.22	276	278	.4370
125	15.85	34.420	4.16							125	15.85	34.420	4.16	25.35	263	266	.5052
140	14.55	34.420	4.30														
KOREA , JI FI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, AUG.15,1980, 11.00 KST, DEPTH 140 , COLOR 3, TRANS. 12.0,																	
WAVE 1, SWELL , WIND NE 4, BARO 1010. , AIR TEMP. DRY .0, WET . , CLOUD, TYPE NS, AMT 10, WEATHER C ,																	
0	22.35	33.260	5.63							0	22.35	33.260	5.63	22.82	504	504	.0000
10	21.75	33.230	5.59							10	21.75	33.230	5.59	22.97	490	400	.0498
20	20.85	33.300	5.49							20	20.85	33.300	5.49	23.26	462	462	.0975
30	20.80	33.430	4.79							30	20.80	33.430	4.79	23.38	451	452	.1432
50	19.35	33.690	4.69							50	19.35	33.690	4.69	23.95	396	308	.2283

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	14.45	34.240	4.79							75	16.45	34.240	4.79	25.08	289	201	.3144
100	14.90	34.300	4.79							100	14.90	34.300	4.79	25.47	251	254	.3827
125	14.54	34.570	4.99							125	14.54	34.570	4.99	25.76	224	227	.4429
135	14.45	34.520	4.89														

KOREA , JI RI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, AUG.15.1980, 09.30 KST, DEPTH 135 , COLOR 3, TRANSP. 12.0.

WAVE 1, SWELL 1, WIND SW 5, BARO 1010. , AIR TEMP. DRY 23.7, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	22.20	33.260	4.98							0	22.20	33.260	4.98	22.86	500	500	.0000
10	22.08	33.200	5.11							10	22.08	33.200	5.11	22.85	501	501	.0501
20	20.22	33.200	4.99							20	20.22	33.200	4.99	23.35	453	454	.0979
30	20.19	33.250	4.99							30	20.19	33.250	4.99	23.40	449	450	.1431
50	17.93	33.220	5.29							50	17.93	33.220	5.29	23.95	397	398	.2280
75	14.39	33.730	5.39							75	14.39	33.730	5.39	25.14	283	284	.3134
100	12.59	34.460	5.37							100	12.59	34.460	5.37	26.10	192	194	.3733
125	10.28	34.580	4.51							125	10.28	34.580	4.51	26.60	145	147	.4161

KOREA , JI RI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, AUG.15.1980, 08.00 KST, DEPTH 130 , COLOR 7, TRANSP. 13.0.

WAVE 1, SWELL 1, WIND SW 5, BARO 1010. , AIR TEMP. DRY 27.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	22.40	33.290	5.73							0	22.40	33.290	5.73	22.83	503	503	.0000
10	22.20	33.200	5.63							10	22.20	33.200	5.63	22.82	505	505	.0504
20	22.00	33.230	5.58							20	22.00	33.230	5.58	22.90	497	497	.1006
30	20.17	33.350	4.99							30	20.17	33.350	4.99	23.48	441	442	.1476
50	16.79	33.540	6.03							50	16.79	33.540	6.03	24.46	347	349	.2267
75	13.35	34.450	5.54							75	13.35	34.450	5.54	25.82	209	211	.2968
100	11.57	34.540	5.39							100	11.57	34.540	5.39	26.33	170	172	.3448
125	9.36	34.530	5.60							125	9.36	34.530	5.60	26.71	134	136	.3834

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA , JI PI SAN , STATION 208-00 , 34-45.5° N, 130-40.5° E, AUG.15.1980, 05.30 KST, DEPTH 130 , COLOR , TRANS. . .

WAVE 2, SWELL 2, WIND SW 5, BARO 1010. , AIR TEMP. DRY 23.4, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	22.30	33.320	5.98							0	22.30	33.320	5.98	22.88	499	408	.0000
10	22.27	33.260	5.40							10	22.27	33.260	5.40	22.84	502	502	.0501
20	22.12	33.390	5.39							20	22.12	33.390	5.39	22.98	489	489	.0997
30	20.68	33.550	5.31							30	20.68	33.550	5.31	23.50	440	440	.1662
50	15.81	33.950	5.29							50	15.81	33.950	5.29	25.00	296	297	.2200
75	12.18	34.430	4.08							75	12.18	34.430	4.08	26.13	189	180	.2811
100	10.00	34.520	5.10							100	10.00	34.520	5.10	26.60	145	146	.3234
125	8.46	34.450	5.60							125	8.46	34.450	5.60	26.79	126	128	.3578

KOREA , JI PI SAN , STATION 208-00 , 34-38.0° N, 130-40.5° E, AUG.15.1980, 05.00 KST, DEPTH 130 , COLOR , TRANS. . .

WAVE 2, SWELL 2, WIND SW 5, BARO 1010. , AIR TEMP. DRY 23.4, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	21.05	33.590	4.87							0	21.95	33.590	4.87	23.18	470	469	.0000
10	21.89	33.590	5.24							10	21.89	33.590	5.24	23.20	468	468	.0469
20	21.50	33.620	5.39							20	21.50	33.620	5.39	23.33	456	456	.0932
30	19.65	33.850	5.70							30	19.65	33.850	5.70	24.00	392	393	.1357
50	14.82	34.110	4.89							50	14.82	34.110	4.89	25.34	264	265	.2015
75	11.16	34.340	4.81							75	11.16	34.340	4.81	26.25	177	179	.2571
100	9.09	34.530	4.34							100	9.09	34.530	4.34	26.76	130	131	.2960
125	8.96	34.530	5.77							125	8.96	34.530	5.77	26.78	128	130	.3287

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

10월(October)

KOREA JI PI SAN , STATION 208-01 , 35-2°5. N, 120-27.3. E, OCT.17.1980, 13.10 KST, DEPTH 70 , COLOR 4, TRANS. 9.0.
 WAVE 1, SWELL 1, WIND SW 2, BARO 1018. , AIR TEMP. DRY 22.5, WET . , CLOUD. TYPE AS, AMT 8, WEATHER C ,
 0 20.20 32.940 6.08 0 20.20 32.940 6.08 23.16 472 471 .0000
 10 20.40 32.860 5.88 10 20.40 32.860 5.88 23.05 483 483 .0477
 20 20.58 32.080 6.57 20 20.58 33.080 6.57 23.17 471 471 .0955
 30 19.85 33.280 5.41 30 19.85 33.280 5.41 23.51 438 439 .1411
 50 16.65 37.900 4.41 50 16.65 33.900 4.41 24.77 318 319 .2170
 65 12.87 34.410 4.51

KOREA JI PI SAN , STATION 208-02 , 35-24.7. N, 120-33.8. E, OCT.17.1980, 12.00 KST, DEPTH 130 , COLOR 3, TRANS. 9.0.
 WAVE 1, SWELL 1, WIND SW 2, BARO 1018. , AIR TEMP. DRY 22.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 21.23 33.670 6.18 0 21.23 33.670 6.18 23.44 445 445 .0000
 10 20.89 33.640 5.81 10 20.89 33.640 5.81 23.51 438 438 .0442
 20 20.34 33.600 6.76 20 20.34 33.600 6.76 23.63 427 428 .0876
 30 19.91 37.710 6.27 30 18.91 33.710 6.27 24.08 384 385 .1282
 50 15.24 34.280 5.31 50 15.24 34.280 5.31 25.35 260 261 .1929
 75 14.80 34.440 3.77 75 14.80 34.440 3.77 25.60 239 241 .2558
 100 14.21 34.480 4.12 100 14.21 34.480 4.12 25.76 224 227 .3143
 125 6.16 34.270 5.29 125 6.16 34.270 5.29 26.98 109 110 .3565

KOREA JI PI SAN , STATION 208-07 , 35-17.8. N, 120-42.9. E, OCT.17.1980, 10.30 KST, DEPTH 150 , COLOR 3, TRANS. 19.0.
 WAVE 1, SWELL 1, WIND SW 1, BARO 1018. , AIR TEMP. DRY 19.7, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 20.97 37.340 5.88 0 20.97 37.340 5.88 23.26 462 462 .0000
 10 20.95 37.230 5.78 10 20.95 33.230 5.78 23.18 470 470 .0466
 20 20.95 37.200 6.19 20 20.95 33.200 6.19 23.16 472 472 .0938

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	10.05	33.590	5.99							30	19.95	33.590	5.99	23.72	418	419	.1384
50	16.95	33.830	6.32							50	16.95	33.830	6.32	24.65	330	331	.2135
75	14.95	34.290	4.71							75	14.95	34.290	4.71	25.45	253	255	.2869
100	14.70	34.380	4.12							100	14.70	34.380	4.12	25.58	241	244	.3493
125	14.27	34.450	5.25							125	14.27	34.450	5.25	25.72	228	231	.4088
145	13.69	34.450	4.66														
KOREA , JI RI SAN , STATION 208-04. , 35-11.1. N, 120-52.7. E, OCT.17.1980, 09.00 KST, DEPTH 143 , COLOR 3, TRANS. 17.0.																	
WAVE 1, SWELL 1, WIND SW 1, BARO 1018. , AIR TEMP. DRY 19.5, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C.																	
0	20.95	33.550	5.88							0	20.95	33.550	5.88	23.43	447	446	.0000
10	21.14	33.480	6.08							10	21.14	33.480	6.08	23.32	456	456	.0452
20	20.80	33.580	6.56							20	20.80	33.580	6.56	23.49	440	441	.0901
30	20.42	33.640	6.47							30	20.42	33.640	6.47	23.64	426	427	.1335
50	19.56	33.740	5.78							50	19.56	33.740	5.78	23.94	398	399	.2163
75	17.04	33.960	5.26							75	17.04	33.960	5.26	24.73	322	324	.3068
100	14.95	33.960	5.41							100	14.95	33.960	5.41	25.20	277	280	.3824
125	17.54	34.280	4.51							125	17.54	34.280	4.51	24.85	311	314	.4568
140	14.28	34.470	4.51														
KOREA , JI RI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, OCT.17.1980, 07.30 KST, DEPTH 140 , COLOR 3, TRANS. 15. ,																	
WAVE , SWELL , WIND NW 2, BARO 1018. , AIR TEMP. DRY 19.3, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	20.84	33.550	5.58							0	20.84	33.550	5.58	23.46	444	443	.0000
10	20.80	33.460	5.78							10	20.80	33.480	5.78	23.41	448	448	.0446
20	20.78	33.500	6.78							20	20.78	33.500	6.78	23.43	446	446	.0893
30	19.68	33.460	6.72							30	19.68	33.460	6.72	23.69	421	422	.1328
50	17.90	34.020	5.61							50	17.90	34.020	5.61	24.57	338	339	.2090

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
75	15.91	34.210	5.59							75	15.91	34.210	5.59	25.18	279	281	.2866
100	14.31	34.430	5.49							100	14.31	34.430	5.49	25.70	230	232	.3509
125	12.10	34.490	6.76							125	13.10	34.490	6.76	26.00	202	205	.4056
135	7.72	34.380	6.68														
KOREA , JI RI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, OCT.17.1980, 06.05 KST, DEPTH 135 , COLOR , TPANS. . .																	
WAVE , SHELL , WIND SW 1, BARO 1018. , AIR TEMP. DRY 19.4, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	19.89	33.510	5.97							0	19.89	33.510	5.97	23.68	423	422	.0000
10	20.05	33.400	6.76							10	20.05	33.400	6.76	23.55	435	435	.0429
20	20.10	33.390	6.63							20	20.10	33.390	6.63	23.53	437	437	.0865
30	19.10	33.410	6.47							30	19.10	33.410	6.47	23.80	411	411	.1290
50	17.41	33.860	6.45							50	17.41	33.860	6.45	24.56	338	339	.2041
75	15.70	34.250	6.17							75	15.70	34.250	6.17	25.26	272	274	.2809
100	13.21	34.480	5.79							100	13.21	34.480	5.79	25.07	205	207	.3411
125	12.55	34.450	6.57							125	12.55	34.480	6.57	26.10	192	195	.3914
KOREA , JI RI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, OCT.17.1980, 04.35 KST, DEPTH 130 , COLOR , TPANS. . .																	
WAVE , SHELL , WIND NW 2, BARO 1018.5, AIR TEMP. DRY 19.5, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	20.30	33.440	6.37							0	20.30	33.440	6.37	23.52	438	438	.0000
10	20.28	33.370	7.01							10	20.28	33.370	7.01	23.47	443	443	.0441
20	20.25	33.360	7.05							20	20.25	33.360	7.05	23.47	443	443	.0884
30	19.00	33.340	7.06							30	19.00	33.340	7.06	23.77	413	414	.1313
50	18.59	33.580	7.11							50	18.59	33.580	7.11	24.06	386	387	.2115
75	16.00	34.250	5.26							75	16.00	34.250	5.26	25.19	278	280	.2950
100	14.90	34.420	6.81							100	14.90	34.420	6.81	25.57	243	245	.3608
125	12.74	34.510	6.01							125	13.74	34.510	6.01	25.58	213	216	.4185

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	D-DY

12월(December)

KOREA ,JI FI SAN , STATION 208-01 , 35-28.5. N, 120-27.3. E, DEC.10.1980, 09:20 KST, DEPTH 70 , COLOR 4, TRANS. 12.0.

WAVE 1, SWELL 2, WIND SW 2, BARO 1021. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	14.75	33.930	6.38							0	14.75	33.930	6.38	25.22	275	.0000
10	14.25	33.930	5.26							10	14.25	33.930	5.26	25.33	265	.0271
20	13.80	34.080	5.76							20	13.80	34.080	5.76	25.54	245	.0527
30	13.70	34.100	4.91							30	13.70	34.100	4.91	25.57	242	.0771
50	13.54	34.330	4.84							50	13.54	34.330	4.84	25.78	222	.1237
65	10.20	34.390	4.60													

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KOREA ,JI FI SAN , STATION 208-02 , 35-24.3. N, 120-33.8. E, DEC.10.1980, 10:30 KST, DEPTH 130 , COLOR 4, TRANS. 14.0.

WAVE 1, SWELL 2, WIND SW 2, BARO 1021. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	16.15	34.080	5.59							0	16.15	34.080	5.59	25.03	294	.0000
10	15.85	34.070	5.59							10	15.85	34.070	5.59	25.09	288	.0291
20	15.90	34.100	5.36							20	15.90	34.100	5.36	25.10	287	.0580
30	16.85	34.540	4.35							30	16.85	34.540	4.35	25.22	276	.0862
50	15.50	34.500	4.93							50	15.50	34.500	4.93	25.49	249	.1390
75	14.65	34.470	4.32							75	14.65	34.470	4.32	25.66	234	.1999
100	12.30	34.580	4.39							100	12.30	34.580	4.39	26.22	180	.2523
125	6.55	34.600	4.49							125	6.55	34.600	4.49	27.19	89	.2865

KOREA ,JI FI SAN , STATION 208-03 , 35-17.8. N, 120-42.9. E, DEC.10.1980, 11:55 KST, DEPTH 150 , COLOR 3, TRANS. 14.0.

WAVE 2, SWELL 2, WIND SW 2, BARO 1021. , AIR TEMP. DRY 10.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	14.12	33.910	6.20							0	14.12	33.910	6.20	24.90	306	.0000
10	16.59	37.970	5.66							10	16.59	37.970	5.66	24.84	312	.0309
20	16.53	37.890	6.17							20	16.53	37.890	6.17	24.79	316	.0674

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
20	16.62	37.990	5.42							30	16.62	37.990	5.42	24.85	311	311	.0938
50	16.58	34.020	5.80							50	16.58	34.020	5.80	24.88	308	309	.1560
75	16.04	34.270	****							75	16.04	34.270	****	25.20	278	280	.2297
100	15.06	34.460	5.88							100	15.06	34.460	5.88	25.56	243	246	.2954
125	16.02	34.410	4.25							125	16.02	34.410	4.25	25.71	267	270	.3600
145	16.01	34.370	4.49														
KOREA , JI PI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E, DEC.10.1980, 13.25 VST, DEPTH 143 , COLOR 3, TRANS. 14.0,																	
WAVE 1, SWELL 2, WIND SW 5, BARO 1018. , AIR TEMP. DRY 11.7, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	17.12	34.010	5.68							0	17.12	34.010	5.68	24.75	321	320	.0000
10	17.11	34.040	5.72							10	17.11	34.040	5.72	24.77	318	318	.0320
20	17.00	34.080	5.48							20	17.00	34.080	5.48	24.83	313	313	.0636
30	16.56	34.110	5.83							30	16.56	34.110	5.83	24.95	301	301	.0944
50	16.46	34.150	5.38							50	16.46	34.150	5.38	25.01	296	297	.1543
75	16.48	34.250	5.67							75	16.48	34.250	5.67	25.08	289	291	.2279
100	16.47	34.310	****							100	16.47	34.310	****	25.13	284	287	.3002
125	16.46	34.270	5.98							125	16.46	34.270	5.98	25.10	287	290	.3725
140	16.10	34.260	5.68														
KOREA , JI PI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, DEC.10.1980, 14.55 VST, DEPTH 140 , COLOR 3, TRANS. 15.0,																	
WAVE 2, SWELL 2, WIND SW 5, BARO 1017.5, AIR TEMP. DRY 12.2, WET , CLOUD. TYPE CU, AMT , WEATHER FC,																	
0	16.70	37.750	6.44							0	16.70	37.750	6.44	24.65	330	330	.0000
10	16.70	37.870	6.88							10	16.70	37.870	6.88	24.74	321	321	.0326
20	16.70	37.740	6.78							20	16.70	37.740	6.78	24.79	316	317	.0646
30	16.70	37.740	6.58							30	16.70	37.740	6.58	24.78	318	318	.0964
50	16.70	34.000	6.38							50	16.70	34.000	6.38	24.84	312	313	.1596

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
75	16.55	34.160	6.48							75	16.55	34.160	6.48	25.01	296	297	.2360
100	16.65	34.270	5.68							100	16.65	34.270	5.68	25.06	291	294	.3101
125	16.64	34.250	5.60							125	16.64	34.250	5.60	25.04	292	296	.3839
135	16.50	34.220	5.38														
KOREA JI RI SAH , STATION 208-06 , 34-58.2. N, 130-11.9. E, DEC.10.1980, 16.25 KST, DEPTH 135 , COLOR 3, TRANS. 15.0,																	
WAVE 3, SWELL 2, WIND SW 5, BARO 1018.0 , AIR TEMP. DRY 12.5, WET . , CLOUD. TYPE CU, AMT 8, WEATHER C ,																	
0	15.60	33.960	6.52							0	15.60	33.960	6.52	25.06	291	291	.0000
10	16.30	33.930	6.58							10	16.30	33.930	6.58	24.88	308	308	.0300
20	16.49	34.000	5.78							20	16.49	34.000	5.78	24.89	307	308	.0608
30	16.40	33.970	5.59							30	16.40	33.970	5.59	24.88	308	308	.0917
50	16.35	34.000	5.78							50	16.35	34.000	5.78	24.92	304	305	.1531
75	16.24	34.250	5.24							75	16.24	34.250	5.24	25.14	284	285	.2271
100	16.15	34.270	5.28							100	16.15	34.270	5.28	25.17	280	283	.2982
130	16.05	34.200	5.18							125	16.07	34.295	5.20	25.21	277	280	.3687
KORCA JI PI SAH , STATION 208-07 , 34-52.0. N, 130-20.9. E, DEC.10.1980, 17.55 KST, DEPTH 130 , COLOR 3, TRANS. 15.0,																	
WAVE 2, SWELL 2, WIND SW 5, BARO 1018.0 , AIR TEMP. DRY 12.6, WET . , CLOUD. TYPE CI, AMT 7, WEATHER BC,																	
0	16.84	33.960	6.34							0	16.84	33.960	6.34	24.77	318	318	.0000
10	15.75	34.060	6.18							10	15.75	34.080	6.18	25.12	285	285	.0302
20	17.26	34.110	6.03							20	16.26	34.110	6.03	25.02	294	295	.0592
30	16.28	34.140	6.30							30	16.28	34.140	6.30	25.04	292	293	.0887
50	16.35	34.110	6.28							50	16.35	34.110	6.28	25.00	296	297	.1478
75	16.55	34.100	6.40							75	16.55	34.180	6.49	25.01	296	297	.2223
100	16.56	34.250	6.28							100	16.56	34.250	6.28	25.06	291	293	.2962
175	16.50	34.300	5.08							125	16.50	34.300	5.98	25.11	286	289	.3691

OBSERVED																		INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

KOREA JI PI SAN , STATION 208-08 , 34-45.2. N, 130-30.6. E, DEC.10.1980, 19.25 PST, DEPTH 130 , COLOR , TRANS. ,
 WAVE Z, SWELL 3, WIND SW 5, EARD 1018. , AIR TEMP. DRY 13.7, WET , , CLOUD. TYPE , AMT , WEATHER FC.

0	16.65	34.100	5.18							0	16.65	34.100	6.18	24.93	304	303	.0000
10	16.50	34.210	6.20							10	16.50	34.210	6.20	25.04	292	292	.0298
20	16.60	34.100	6.18							20	16.60	34.160	6.18	24.98	298	298	.0594
30	16.55	34.180	6.20							30	16.55	34.180	6.20	25.01	296	296	.0892
50	16.60	34.110	6.03							50	16.60	34.110	6.03	24.94	302	303	.1492
75	16.75	34.380	6.19							75	16.75	34.380	6.19	25.12	285	287	.2231
100	16.75	34.310	5.96							100	16.75	34.310	5.96	25.06	290	293	.2957
125	16.45	34.340	5.93							125	16.45	34.340	5.93	25.16	282	295	.3681

KOREA JI PI SAN , STATION 208-08 , 34-38.0. N, 130-40.5. E, DEC.10.1980, 20.50 PST, DEPTH 130 , COLOR , TRANS. ,
 WAVE Z, SWELL 2, WIND SW 5, EARD 1018. , AIR TEMP. DRY 12.0, WET , , CLOUD. TYPE , AMT , WEATHER FC.

0	16.40	34.030	5.88							0	16.40	34.080	5.88	24.97	299	299	.0000
10	16.50	34.210	5.58							10	16.50	34.210	5.58	25.04	292	292	.0296
20	16.55	34.160	5.38							20	16.55	34.160	5.38	24.99	297	297	.0591
30	16.70	34.100	5.88							30	16.70	34.100	5.88	24.91	305	305	.0893
50	16.55	34.060	5.80							50	16.55	34.060	5.88	24.92	304	305	.1505
75	16.45	34.450	5.36							75	16.45	34.450	5.36	25.24	274	275	.2232
100	16.43	34.380	5.38							100	16.43	34.380	5.38	25.19	278	281	.2929
125	16.39	34.200	5.46							125	16.39	34.280	5.46	25.12	295	298	.3641

남 해 해 양 조 사 성 적

OCEANOGRAPHIC DATA : SOUTHERN WATERS

1980

207선 해양관측성적

Oceanographic Data. Line 207

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , TAE PAK SAN , STATION 207-01 , 35-01.3. N, 120-07.2. E, FEB.14.1980, 17.30 KST, DEPTH 85 , COLOR 6, TRANS. 9.0.																	
WAVE 2, SWELL 1, WIND NE 3, BARO 1026.5, AIR TEMP. DRY 4.3, WET . , CLOUD. TYPE CI, AMT 4, WEATHER BC,																	
0	11.00	34.560	5.51							0	11.00	34.560	5.51	26.45	158	158	.0000
10	11.15	34.560	5.52							10	11.15	34.560	5.53	26.43	161	161	.0160
20	12.16	34.560	5.61							20	12.16	34.560	5.61	26.24	179	179	.0331
30	12.71	34.580	5.91							30	12.71	34.580	5.91	26.14	188	188	.0515
50	11.66	34.540	6.03							50	11.66	34.540	6.03	26.32	171	172	.0876
75	11.30	34.540	5.82							75	11.30	34.540	5.82	26.38	165	167	.1301
KOREA , TAE PAK SAN , STATION 207-02 , 34-57.6. N, 120-11.2. E, FEB.14.1980, 16.50 KST, DEPTH 106 , COLOR 5, TRANS. 9.0.																	
WAVE 2, SWELL 1, WIND NE 3, BARO 1026. , AIR TEMP. DRY 4.8, WET . , CLOUD. TYPE CI, AMT 6, WEATHER BC,																	
0	12.36	34.500	5.91							0	12.36	34.580	5.91	26.21	181	181	.0000
10	12.41	34.530	5.80							10	12.41	34.590	5.80	26.21	181	181	.0182
20	12.54	34.530	5.71							20	12.54	34.530	5.71	26.14	188	188	.0367
30	12.50	34.580	5.31							30	12.50	34.580	6.31	26.19	184	184	.0354
50	12.48	34.560	5.66							50	12.48	34.560	5.66	26.17	185	186	.0925
75	12.21	34.530	5.71							75	12.21	34.530	5.71	26.20	182	184	.1388
100	12.06	34.560	5.71							100	12.06	34.560	5.71	26.26	177	179	.1843
KOREA , TAE PAK SAN , STATION 207-03 , 34-53.9. N, 120-15.4. E, FEB.14.1980, 16.10 KST, DEPTH 117 , COLOR 4, TRANS. 15.0.																	
WAVE 2, SWELL 1, WIND NE 3, BARO 1025.5, AIR TEMP. DRY 5.7, WET . , CLOUD. TYPE CI, AMT 6, WEATHER BC,																	
0	12.79	34.520	5.61							0	12.79	34.520	5.61	26.08	194	193	.0000
10	12.58	34.520	5.71							10	12.58	34.520	5.31	26.12	190	190	.0191
20	12.60	34.520	5.51							20	12.60	34.520	5.50	26.12	190	190	.0322

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02.N	N03.N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY

30	12.56	34.490	5.41							30	12.56	34.490	5.41	26.10	191	102	.0574
50	12.38	34.490	6.75							50	12.38	34.490	6.75	26.14	188	189	.0956
75	12.30	34.510	5.75							75	12.30	34.510	5.75	26.17	185	187	.1427
100	12.45	34.490	4.43							100	12.45	34.490	4.43	26.13	189	102	.1901
110	11.91	34.470	5.69														

KOREA ,TAC PAK SAN , STATION 207-04 , 34-50.2. N, 120-19.5. E, FEB.14.1980, 15.10 KST, DEPTH 225 , COLOR 4, TRANS. 16.0.

WAVE 2, SWELL 1, WIND NE 3, BARO 1026.5, AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE CI, AMT 6, WEATHER BC,

0	12.80	34.520	5.50							0	12.80	34.520	5.50	26.08	194	193	.0000
10	12.80	34.500	5.41							10	12.80	34.500	5.41	26.06	195	195	.0195
20	12.86	34.500	5.52							20	12.86	34.500	5.52	26.05	196	107	.0391
30	12.89	34.510	5.51							30	12.89	34.510	5.51	26.05	196	197	.0528
50	12.76	34.510	5.32							50	12.76	34.510	5.32	26.08	194	195	.0981
75	12.90	34.520	5.51							75	12.90	34.520	5.51	26.06	196	107	.1472
100	12.90	34.520	5.52							100	12.90	34.520	5.52	26.06	196	108	.1967
125	12.82	34.510	5.40							125	12.82	34.510	5.40	26.07	195	198	.2463
150	12.81	34.510	5.50							150	12.81	34.510	5.50	26.07	195	108	.2959
200	12.33	34.520	5.30							200	12.33	34.520	5.30	26.17	185	190	.3931
220	11.62	34.520	5.32														

KOREA ,TAC PAK SAN , STATION 207-05 , 34-48.0. N, 120-21.8. E, FEB.14.1980, 14.40 KST, DEPTH 160 , COLOR 5, TRANS. 11.0.

WAVE 3, SWELL 1, WIND NE 4, BARO 1028. , AIR TEMP. DRY 4.9, WET . , CLOUD. TYPE CI, AMT 3, WEATHER BC,

0	12.82	34.520	6.05							0	12.82	34.520	6.05	26.08	194	104	.0000
10	12.75	34.500	5.43							10	12.75	34.500	5.43	26.07	194	104	.0195
20	12.70	34.500	6.20							20	12.70	34.500	6.20	26.08	193	104	.0389

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	12.69	*****	6.82							30	12.69	*****	6.82	*****	***	***	*****
50	12.78	34.520	6.10							50	12.78	34.520	6.10	26.08	193	194	*****
75	12.60	34.550	6.20							75	12.60	34.550	6.20	26.14	188	189	*****
100	12.72	34.500	5.51							100	12.72	34.500	5.51	26.08	194	196	*****
125	12.72	34.500	5.51							125	12.72	34.500	5.51	26.08	194	197	*****
150	11.72	34.510	5.31							150	11.72	34.510	5.31	26.28	175	178	*****
4월(April)																	
KOREA ,TAE BAK SAN , STATION 207-01 , 35-01.2. N, 120-07.2. E, APR. 7.1980, 14.50 KST, DEPTH 84 , COLOR 5, TFANS. 2.0,																	
WAVE 3, SWELL 2, WIND SE 4, BARO 1016.5, AIR TEMP. DRY 14.0, WET . , CLOUD. TYPE CS, AMT 2, WEATHER B ,																	
0	12.74	34.290	6.80							0	12.74	34.290	6.80	25.91	210	209	.0000
10	12.45	34.290	6.12							10	12.45	34.290	6.12	25.97	204	204	.0207
20	12.54	34.370	5.75							20	12.54	34.370	5.75	26.02	200	200	.0410
30	12.70	*****	6.06							30	12.70	*****	6.06	*****	***	***	*****
50	12.64	34.430	5.91							50	12.64	34.430	5.91	26.04	197	198	*****
75	11.80	34.490	5.61							75	11.80	34.490	5.61	26.25	178	179	*****
KOREA ,TAE BAK SAN , STATION 207-02 , 34-57.6. N, 120-11.2. E, APR. 7.1980, 15.40 KST, DEPTH 103 , COLOR 4, TFANS. 15.0,																	
WAVE 3, SWELL 2, WIND E 4, BARO 1017. , AIR TEMP. DRY 14.2, WET . , CLOUD. TYPE CS, AMT 3, WEATHER BC,																	
0	13.69	34.510	5.71							0	13.69	34.510	5.71	25.89	212	211	.0000
10	13.63	*****	*****							10	13.63	*****	*****	*****	***	***	*****
20	13.40	34.480	5.92							20	13.40	34.480	5.92	25.93	208	208	*****
30	12.92	34.460	6.48							30	12.92	34.460	6.48	26.01	200	201	*****
50	12.55	34.410	6.20							50	12.55	34.410	6.20	26.04	197	198	*****
75	11.72	34.480	5.66							75	11.72	34.480	5.66	26.26	177	178	*****
100	11.47	34.420	5.81							100	11.47	34.420	5.81	26.26	177	179	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D T	SVA	D-DY
KOREA , JAE PAK SAN , STATION 207-07 , 34-53.0. N, 120-15.4. E, APR. 7, 1980, 16.30 WST, DEPTH 115 , COLOR 4, TRANS. 18.0, WAVE 3, SWELL 3, WIND E 4, BARO 1016.5, AIP TEMP. DRY 12.1, WET , CLOUD. TYPE CS, AMT 3, WEATHER FC,																	
0	14.55	34.590	5.72							0	14.55	34.590	5.72	25.77	223	223	.0000
10	14.53	34.620	6.05							10	14.53	34.620	6.05	25.80	220	220	.0222
20	14.00	34.510	5.81							20	14.00	34.510	5.81	25.83	218	218	.0442
30	13.69	34.500	6.00							30	13.69	34.500	6.00	25.88	212	213	.0658
50	13.59	34.480	6.12							50	13.59	34.480	6.12	25.89	212	213	.1084
75	13.39	34.480	6.40							75	13.39	34.480	6.40	25.93	208	210	.1614
100	13.05	34.480	*****							100	13.05	34.480	*****	26.00	201	204	.2132
110	12.50	*****	*****														
KOREA , JAE PAK SAN , STATION 207-04 , 34-50.2. N, 120-19.5. E, APR. 7, 1980, 17.40 WST, DEPTH 225 , COLOR 4, TRANS. 18.0, WAVE 3, SWELL 3, WIND E 4, BARO 1016.5, AIP TEMP. DRY 11.7, WET , CLOUD. TYPE CS, AMT 4, WEATHER BC,																	
0	14.60	34.600	5.92							0	14.60	34.600	5.92	25.77	223	223	.0000
10	14.45	34.590	6.02							10	14.45	34.590	6.02	25.79	221	221	.0222
20	14.20	34.550	5.81							20	14.20	34.550	5.81	25.82	219	219	.0443
30	14.15	34.540	5.82							30	14.15	34.540	5.92	25.82	219	219	.0663
50	14.10	34.560	*****							50	14.10	34.560	*****	25.84	216	217	.1100
75	13.93	34.520	6.61							75	13.93	34.520	6.61	25.85	216	217	.1644
100	13.30	34.540	6.30							100	13.30	34.540	6.30	26.00	202	204	.2132
125	12.85	34.460	*****							125	12.85	34.460	*****	26.02	198	202	.2681
150	12.35	34.420	6.61							150	12.35	34.420	6.61	26.09	193	196	.3180
200	12.20	34.420	7.15							200	12.20	34.420	7.15	26.12	190	195	.4159
210	11.91	34.410	6.61														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE PAFK SAN , STATION 207-05 , 34-48.0. N, 127-21.8. E, APR. 7.1980, 18.20 KST, DEPTH 160 , COLOR , TPANS. . .

WAVE 1, SWELL 3, WIND E 4, BARO 1016.5, AIR TEMP. DRY 10.8, WET . , CLOUD. TYPE . , AMT , WEATHER FC,

0	15.00	34.510	6.42							0	15.00	34.510	6.42	25.61	238	238	.0000
10	14.68	34.520	6.35							10	14.68	34.520	6.35	25.69	231	231	.0235
20	14.42	34.470	6.30							20	14.42	34.470	6.30	25.71	229	229	.0665
30	14.30	34.490	6.41							30	14.30	34.490	6.41	25.75	225	226	.0693
50	14.01	34.420	6.42							50	14.01	34.420	6.42	25.76	225	226	.1146
75	13.55	34.500	6.85							75	13.55	34.500	6.85	25.91	210	211	.1693
100	12.90	34.420	6.51							100	12.90	34.420	6.51	25.08	203	205	.2215
125	12.46	*****	6.36							125	12.46	*****	6.36	*****	***	***	*****
150	12.30	34.470	6.61							150	12.30	34.470	6.61	26.14	188	192	*****

6월 (June)

KOREA ,TAE PAFK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, JUN.15.1980, 09.00 KST, DEPTH 84 , COLOR , TRANS. . .

WAVE NE 1, SWELL , WIND NE 2, BARO 1006. , AIR TEMP. DRY 20.6, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	10.00	33.610	5.73							0	19.00	33.610	5.73	23.98	394	393	.0000
10	17.35	33.710	*****							10	17.35	33.710	*****	24.46	348	348	.0371
20	14.64	33.530	*****							20	14.64	33.530	*****	24.94	302	303	.0697
30	14.00	37.980	5.43							30	14.00	33.980	5.43	25.42	257	257	.0977
50	13.73	34.070	5.14							50	13.73	34.070	5.14	25.54	245	246	.1481
75	13.80	34.250	*****							75	13.80	34.250	*****	25.67	233	235	.2082

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA
30	15.84	33.800	6.55							30	15.84	33.800	6.55	24.88	308	308 .1007
50	14.70	34.140	5.82							50	14.70	34.140	5.82	25.39	259	260 .1577
75	14.56	34.270	5.02							75	14.56	34.270	5.02	25.52	247	248 .2214
100	14.76	34.520	4.61							100	14.76	34.520	4.61	25.67	232	235 .2819
125	14.77	34.520	5.86							125	14.77	34.520	5.86	25.67	233	236 .3408
150	12.60	34.030	6.14							150	12.60	34.030	6.14	25.74	226	229 .3991
200	11.50	34.200	6.26							200	11.50	34.200	6.26	26.08	194	198 .5062
KOREA , TAE EAK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, JUN.15.1980, 05.10 VST, DEPTH 160 , COLOR - , TRANS. . .																
WAVE NE 1, SWELL , WIND NE 2, BARO 1005.5, AIR TEMP. DRY 21.0, WFT . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																
0	20.94	33.490	5.23							0	20.94	33.490	5.23	23.38	451	450 .0000
10	19.69	33.690	5.37							10	19.69	33.690	5.37	23.87	405	405 .0428
20	17.38	33.830	5.23							20	17.38	33.830	5.23	24.55	340	340 .0801
30	16.27	34.160	5.23							30	16.27	34.160	5.23	25.06	291	291 .1117
50	15.00	34.310	4.92							50	15.00	34.310	4.92	25.46	253	254 .1663
75	15.14	34.440	4.92							75	15.14	34.440	4.92	25.53	246	248 .2292
100	15.00	34.500	4.42							100	15.00	34.500	4.42	25.61	239	241 .2905
125	15.14	34.490	4.71							125	15.14	34.490	4.71	25.57	243	246 .3515
150	15.13	33.850	4.32							150	15.13	33.850	4.32	25.08	280	203 .4189

8월(August)

KOREA , TAE EAK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, AUG.16.1980, 06.30 VST, DEPTH 83 , COLOR - , TRANS. . .																
WAVE NE 4, SWELL E 1, WIND NE 4, BARO 1006.4, AIR TEMP. DRY 22.4, WFT . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																
0	23.30	32.920	4.81							0	23.30	32.920	4.81	22.30	555	554 .0000
10	23.49	32.720	4.21							10	23.49	32.720	4.21	22.09	574	574 .0565

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	21.21	*****	*****							20	21.21	*****	*****	*****	***	***	*****
30	18.05	33.640	4.12							30	18.05	33.640	4.12	24.24	369	370	*****
50	14.74	34.760	*****							50	14.64	34.380	*****	25.59	240	241	*****
75	14.58	34.690	4.12							75	14.58	34.690	4.12	25.84	216	218	*****
KOREA , TAE BAK SAN , STATION 207-02 , 34-53.4. N, 129-11.2. E, AUG.16.1980, 07.50 KST, 0 FTH 103 , COLOR , TRANS. , .																	
WAVE NE 5, SWELL E 1, WIND NE 5, BARO 1006.4, AIR TEMP. DRY 21.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	21.70	32.810	4.81							0	23.70	32.810	4.81	22.10	574	573	.0000
10	21.60	33.000	4.86							10	23.60	33.000	4.86	22.27	557	557	.0566
20	21.42	33.090	4.91							20	23.42	33.090	4.81	22.67	518	519	.1104
30	19.86	33.160	*****							30	19.86	33.180	*****	23.43	446	446	.1597
50	14.43	34.500	*****							50	14.43	34.580	*****	25.79	221	222	.2257
75	14.76	34.590	*****							75	14.36	34.590	*****	25.81	219	221	.2812
100	14.02	34.520	5.01							100	14.02	34.520	5.01	25.83	217	220	.3365
KOREA , TAE BAK SAN , STATION 207-03 , 34-53.9. N, 129-15.4. E, AUG.16.1980, 06.50 KST, DEPTH 115 , COLOR , TRANS. , .																	
WAVE NE 5, SWELL N 2, WIND NE 5, BARO 1006.5, AIR TEMP. DRY 21.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER R ,																	
0	24.10	33.160	4.31							0	24.10	33.160	4.31	22.24	560	559	.0000
10	24.24	33.150	4.64							10	24.24	33.150	4.64	22.19	564	564	.0562
20	24.35	33.040	4.85							20	24.05	33.040	4.85	22.17	567	567	.1128
30	23.09	33.220	*****							30	23.09	33.220	*****	22.58	527	528	.1675
50	17.05	33.400	4.80							50	21.85	33.400	4.80	23.07	481	482	.2637
75	17.70	33.780	*****							75	17.70	33.780	*****	24.47	351	353	.3732
100	14.59	34.360	4.90							100	14.59	34.360	4.90	25.59	241	243	.4478
110	14.35	34.500	4.81														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE RACK SAN , STATION 207-04 , 34-50.2. N, 120-19.5. E, AUG.16.1980, 05.40 KST, DPTH 225 , COLOR , TRANS. , ,																	
WAVE 4, SWELL 1, WIND NE 5, BARO 1005. , AIP TEMP. DRY 21.9, WET , CLOUD. TYPE , AMT , WEATHER R ,																	
0	27.87	*****	4.82							0	23.87	*****	4.82	*****	***	***	.0000
10	27.87	37.030	4.78							10	23.87	33.030	4.78	22.21	562	563	*****
20	23.38	33.040	4.80							20	23.38	33.040	4.80	22.36	548	548	*****
30	22.40	33.170	*****							30	22.40	33.170	*****	22.74	512	513	*****
50	17.89	34.520	4.61							50	17.89	34.520	4.61	24.95	301	302	*****
75	16.39	34.520	4.91							75	16.39	34.520	4.91	25.31	267	269	*****
100	15.25	34.520	4.92							100	15.25	34.520	4.92	25.57	243	245	*****
125	15.12	34.510	4.39							125	15.12	34.510	4.39	25.59	241	244	*****
150	14.65	34.510	*****							150	14.65	34.510	*****	25.69	231	235	*****
200	14.45	34.470	4.90							200	14.45	34.470	4.90	25.70	230	235	*****
220	11.75	34.440	4.32														

KOREA ,TAE RACK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, AUG.16.1980, 05.00 KST, DPTH 160 , COLOR , TRANS. ,																	
WAVE	4, SWELL	1, WIND NE	5, BARO 1005. , AIR TEMP. DRY	21.8, WET	, CLOUD. TYPE , AMT , WEATHER R ,												
0	23.94	33.080	4.83							0	23.94	33.080	4.83	22.23	561	561	.0000
10	23.90	33.090	4.81							10	23.90	33.090	4.81	22.25	559	559	.0550
20	23.68	33.070	4.82							20	23.68	33.070	4.82	22.30	554	555	.1118
30	23.12	33.290	4.11							30	23.12	33.290	4.11	22.63	523	524	.1657
50	17.95	34.200	4.51							50	17.95	34.200	4.51	24.69	326	327	.2509
75	17.41	34.350	4.11							75	17.41	34.350	4.11	24.94	302	304	.3299
100	16.77	34.410	*****							100	16.77	34.410	*****	25.14	284	286	.4039
125	16.72	34.410	4.02							125	16.72	34.410	4.02	25.15	283	286	.4755
150	16.08	33.700	5.92							150	16.08	33.700	5.92	24.75	320	324	.5519

OBSERVED																	INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY									

9월(September)

KOREA ,TAE PAK SAN , STATION 207-01 , 35-01.3. N, 120-07.2. E, SEP.18.1980, 74.00 KST, DEPTH 84 , COLOR , TRANS. ,
 WAVE NE 4, SWELL 2, WIND NE 4, BARO 1011. , AIR TEMP. DRY 27.0, WET , , CLOUD. TYPE , AMT , WEATHER EC,
 0 27.30 *****
 10 23.30 , *****
 20 23.20 *****
 30 27.00 *****
 50 17.00 *****
 75 16.20 *****

KOREA ,TAE PAK SAN , STATION 207-02 , 34-57.6. N, 120-11.2. E, SEP.18.1980, 71.10 KST, DEPTH 103 , COLOR , TRANS. ,
 WAVE NE 4, SWELL 2, WIND NE 4, BARO 1011. , AIR TEMP. DRY 22.6, WET , , CLOUD. TYPE , AMT , WEATHER EC,
 0 23.60 *****
 10 23.60 *****
 20 23.60 *****
 30 27.60 *****
 50 17.20 *****
 75 16.70 *****
 100 16.20 *****

KOREA ,TAE PAK SAN , STATION 207-03 , 34-53.0. N, 120-15.4. E, SEP.18.1980, 70.40 KST, DEPTH 115 , COLOR , TRANS. ,
 WAVE NE 4, SWELL 2, WIND NE 4, BARO 1011. , AIR TEMP. DRY 22.6, WET , , CLOUD. TYPE , AMT , WEATHER EC,
 0 27.60 *****
 10 27.60 *****
 20 27.60 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

30	23.20	*****	*****						30	23.20	*****	*****	*****	***	***	*****
50	16.80	*****	*****						50	16.80	*****	*****	*****	***	***	*****
75	15.90	*****	*****						75	15.90	*****	*****	*****	***	***	*****
100	14.70	*****	*****						100	14.70	*****	*****	*****	***	***	*****

KOREA ,TAC PACK SAN , STATION 207-04 , 34-50.2. N, 120-19.5. E, SEP.18.1980, 20.00 KST, DEPTH 225 , COLOR , TRANS. ,
WAVE NE 5, SWELL 2, WIND NE 5, BARO 1011. , AIR TEMP. DRY 22.6, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	23.70	*****	*****						0	23.70	*****	*****	*****	***	***	.0000
10	23.17	*****	*****						10	23.17	*****	*****	*****	***	***	*****
20	23.60	*****	*****						20	23.60	*****	*****	*****	***	***	*****
30	23.90	*****	*****						30	23.90	*****	*****	*****	***	***	*****
50	15.00	*****	*****						50	15.00	*****	*****	*****	***	***	*****
75	14.00	*****	*****						75	14.00	*****	*****	*****	***	***	*****
100	17.80	*****	*****						100	12.80	*****	*****	*****	***	***	*****
125	17.40	*****	*****						125	13.40	*****	*****	*****	***	***	*****
150	17.60	*****	*****						150	13.60	*****	*****	*****	***	***	*****

KOREA ,TAE PACK SAN , STATION 207-05 , 34-48.0. N, 120-21.8. E, SEP.18.1980, 19.30 KST, DEPTH 160 , COLOR , TRANS. ,
WAVE NE 5, SWELL 2, WIND NE 5, BARO 1011. , AIR TEMP. DRY 22.7, WET , CLOUD. TYPE , AMT , WEATHER PC,

0	23.70	*****	*****						0	23.70	*****	*****	*****	***	***	.0000
10	27.70	*****	*****						10	23.70	*****	*****	*****	***	***	*****
20	27.90	*****	*****						20	23.90	*****	*****	*****	***	***	*****
30	24.20	*****	*****						30	24.20	*****	*****	*****	***	***	*****

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									
50	16.20	*****	*****							50	16.20	*****	*****	*****	***	***	*****									
75	14.20	*****	*****							75	14.20	*****	*****	*****	***	***	*****									
100	13.60	*****	*****							100	13.60	*****	*****	*****	***	***	*****									
125	13.60	*****	*****							125	13.60	*****	*****	*****	***	***	*****									
150	12.80	*****	*****							150	12.60	*****	*****	*****	***	***	*****									

10월 (October)

KOREA , TAE BAK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, OCT. 7. 1980, 12.35 KST, DEPTH 80 , COLOR 8, TRANS. 5.0,																	
WAVE 3, SWELL 1, WIND SW 3, BARO 1010. , AIR TEMP. DRY 23.0, WET 0 , CLOUD. TYPE CI, AMT 3, WEATHER BC,																	
0	21.52	31.140	6.41							0	21.52	31.140	6.41	21.45	636	636	.0000
10	21.21	32.700	8.88							10	21.21	32.700	8.88	22.71	515	515	.0576
20	21.17	37.000	5.99							20	21.17	33.080	5.99	23.01	486	487	.1077
30	19.54	37.360	5.72							30	18.54	33.360	5.72	23.91	401	401	.1521
50	16.36	37.920	5.00							50	16.36	33.920	5.00	24.95	310	311	.2235
75	15.09	34.780	4.80							75	15.09	34.380	4.80	25.49	250	251	.2940

KOREA , TAE BAK SAN , STATION 207-02 , 34-57.6. N, 129-11.2. E, OCT. 7. 1980, 14.20 PST, DEPTH 104 , COLOR 4, TRANS. 11.0,																	
WAVE 7, SWELL 1, WIND SW 3, BARO 1010. , AIR TEMP. DRY 22.2, WET 0 , CLOUD. TYPE CI, AMT 4, WEATHER BC,																	
0	21.88	32.670	7.21							0	21.88	32.670	7.21	22.51	534	534	.0000
10	22.95	33.390	7.43							10	22.95	33.390	7.43	22.75	511	511	.0523
20	22.49	37.860	8.60							20	23.49	33.860	8.60	22.95	492	492	.1025
30	22.62	34.040	6.70							30	23.62	34.040	6.70	23.05	407	483	.1514
50	19.68	37.850	9.90							50	19.68	33.850	8.90	23.99	393	394	.2302
75	15.37	34.220	6.60							75	15.37	34.220	6.60	25.31	267	269	.3222
100	15.14	34.350	5.99							100	15.14	34.350	5.99	25.46	253	255	.3878

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA ,TAE BAK SAN , STATION 207-03 , 34-53.0. N, 120-15.4. E, OCT. 7.1980, 15.10 KST, DEPTH 110 , COLOR 4, TRANS. 12.0.																								
WAVE 3, SWELL 1, WIND SW 3, BARO 1010. , AIR TEMP. DRY 20.8, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,																								
0	24.40	33.940	7.81							0	24.40	33.940	7.81	22.74	512	511	.0000							
10	23.87	33.930	8.00							10	23.87	33.930	8.00	22.89	498	498	.0505							
20	22.50	33.660	6.14							20	22.50	33.660	6.14	23.08	479	480	.0994							
30	22.54	33.460	8.91							30	22.54	33.480	8.91	22.93	493	494	.1482							
50	18.19	34.060	6.42							50	18.19	34.060	6.42	24.53	342	343	.2319							
75	18.13	34.460	5.89							75	18.13	34.460	5.89	24.85	311	313	.3141							
100	15.32	34.220	5.60							100	15.32	34.220	5.60	25.32	266	269	.3869							
105	15.17	34.310	5.61																					

KOREA ,TAE BAK SAN , STATION 207-04 , 34-50.2. N, 120-19.5. E, OCT. 7.1980, 16.00 KST, DEPTH 225 , COLOR 4, TRANS. 11.0,																	
WAVE 3, SWELL 2, WIND SW 3, BARO 1009. , AIR TEMP. DRY 22.2, WET . , CLOUD. TYPE CI, AMT 4, WEATHER BC,																	
0	23.94	33.970	7.40							0	23.94	33.970	7.40	22.90	497	496	.0000
10	23.30	33.910	7.61							10	23.30	33.910	7.61	23.04	483	483	.0490
20	23.09	33.910	7.80							20	23.09	33.910	7.80	23.10	477	478	.0971
30	20.57	33.790	6.82							30	20.57	33.790	6.82	23.71	419	420	.1420
50	18.30	34.330	5.80							50	18.30	34.330	5.80	24.70	325	326	.2167
75	17.81	34.440	7.86							75	17.81	34.440	7.86	24.91	305	307	.2950
100	17.85	34.420	6.34							100	17.85	34.420	6.34	24.88	308	310	.3733
125	17.58	34.410	6.70							125	17.58	34.410	6.70	24.94	302	305	.4503
150	17.50	34.390	6.01							150	17.50	34.390	6.01	24.95	302	306	.5269
200	17.55	34.450	6.62							200	17.55	34.450	6.62	24.98	298	304	.6796
220	15.31	34.550	4.80														

OBSERVED																		INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY										

KOREA , TAE DAEK SAN , STATION 207-05 , 34-48.0. N, 120-21.8. E, OCT. 7, 1980, 16.50 KST, DEPTH 160 , COLOR 4, TRANS. 12.0.
 WAVE 7, SWELL 2, WIND SW 4, BARO 1009. , AIR TEMP. DRY 22.1, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC.
 0 23.80 33.920 7.20 0 23.80 33.920 7.20 22.91 496 496 .0000
 10 23.48 33.850 7.21 10 23.48 33.850 7.21 22.95 492 492 .0495
 20 22.79 33.860 6.09 20 22.79 33.860 6.09 23.15 473 473 .0978
 30 22.87 33.900 6.29 30 22.87 33.900 6.29 23.16 472 473 .1451
 50 22.30 33.910 7.01 50 22.30 33.910 7.01 23.33 456 457 .2382
 75 20.31 33.980 4.39 75 20.31 33.980 4.39 23.92 399 401 .3456
 100 16.80 34.420 7.71 100 16.80 34.420 7.71 25.14 284 286 .4317
 125 16.45 34.420 6.91 125 16.45 34.420 6.91 25.22 276 279 .5025
 150 16.40 34.560 6.61 150 16.40 34.580 6.61 25.35 263 267 .5709

12월(December)

KOREA , TAE DAEK SAN , STATION 207-01 , 35-01.3. N, 120-07.2. E, DEC.10, 1980, 17.00 KST, DEPTH 84 , COLOR , TRANS. . ,
 WAVE SW 4, SWELL SW 1, WIND W 4, BARO 1014. , AIR TEMP. DRY 11.2, WET . , CLOUD. TYPE AC, AMT 4, WEATHER FC.
 0 13.89 33.140 5.31 0 13.89 33.140 5.31 24.79 316 316 .0000
 10 13.86 ***** 5.21 10 13.86 ***** 5.21 ***** *** *****
 20 13.95 33.640 5.42 20 13.95 33.640 5.42 25.17 281 281 *****
 30 14.04 ***** 5.90 30 14.04 ***** 5.90 ***** *** *****
 50 14.03 33.710 5.60 50 14.03 33.710 5.60 25.20 277 278 *****
 75 14.11 33.730 5.81 75 14.11 33.730 5.81 25.20 277 279 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAK SAN , STATION 207-07 , 34-57.6. N, 120-11.2. E, DEC.10.1980, 17.40 VST, DEPTH 103 , COLOR , TRANS. . .

WAVE SW 4, SWELL SW 1, WIND W 4, BARO 1014. , AIR TEMP. DRY 11.4, WET . , CLOUD. TYPE AC, AMT 4, WEATHER PC,

0	15.08	33.390	5.91							0	15.08	33.390	6.91	24.73	322	321	.0000
10	15.22	33.430	5.85							10	15.22	33.430	5.85	24.73	322	322	.0322
20	15.27	33.430	5.92							20	15.27	33.430	5.92	24.72	323	323	.0645
30	15.25	33.460	5.17							30	15.25	33.460	5.17	24.75	320	321	.0967
50	14.59	33.680	5.40							50	14.59	33.680	5.40	25.06	290	201	.1580
75	14.75	*****	5.51							75	14.75	*****	5.51	*****	***	***	*****
100	14.75	34.080	4.40							100	14.75	34.080	4.40	25.34	264	267	*****

KOREA ,TAE BAK SAN , STATION 207-03 , 34-53.9. N, 120-15.4. E, DEC.10.1980, 18.20 VST, DEPTH 115 , COLOR , TRANS. . .

WAVE SW 4, SWELL SW 1, WIND W 4, BARO 1014. , AIR TEMP. DRY 12.2, WET . , CLOUD. TYPE AC, AMT 7, WEATHER EC,

0	17.19	33.340	6.02							0	17.19	33.340	6.02	24.22	371	371	.0000
10	17.27	33.340	6.35							10	17.27	33.340	6.35	24.20	373	373	.0372
20	15.52	33.960	6.12							20	15.52	33.560	6.12	24.77	319	319	.0719
30	15.16	33.400	6.40							30	15.16	33.490	6.40	24.70	316	317	.1057
50	15.18	33.550	5.70							50	15.18	33.550	5.70	24.84	312	313	.1657
75	15.98	34.440	*****							75	15.98	34.440	*****	25.34	264	266	.2393
100	14.40	34.320	5.11							100	14.40	34.320	5.11	25.60	240	242	.3029
110	13.25	*****	5.35														

KOREA ,TAE BAK SAN , STATION 207-04 , 34-50.2. N, 120-19.5. E, DEC.10.1980, 19.10 VST, DEPTH 230 , COLOR , TRANS. . .

WAVE SW 4, SWELL SW 1, WIND W 4, BARO 1014.8, AIR TEMP. DRY 12.2, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	16.59	33.560	5.72							0	16.59	33.560	5.72	24.53	342	341	.0000
10	16.65	33.610	6.11							10	16.65	33.610	6.11	24.55	339	330	.0341

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	16.65	33.530	5.78							20	16.65	33.530	5.78	24.40	345	345	.0684
30	17.36	34.180	6.31							30	17.36	34.180	6.31	24.82	314	314	.1014
50	17.62	34.160	5.95							50	17.62	34.160	5.95	24.74	321	322	.1652
75	17.67	34.210	5.41							75	17.67	34.210	5.41	24.77	319	321	.2456
100	15.00	34.200	6.11							100	15.00	34.200	6.11	25.37	261	263	.3187
125	14.30	34.250	6.30							125	14.30	34.250	6.30	25.56	243	246	.3825
150	14.47	34.310	4.40							150	14.47	34.310	4.40	25.57	242	246	.4441
200	11.93	34.260	4.40							200	11.93	34.260	4.40	26.05	197	201	.5560
225	9.52	34.200	4.86														

KORÉA , TAE RACK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, DEC.10.1980, 19.50 KST, DEPTH 160 , COLOR , TRANS. . .
WAVE SW 4, SWELL SW 1, WIND W 4, EARO 1015. , AIR TEMP. DRY 12.4, WET . , CLOUD. TYPE , AMT , WEATHER C ,
0 17.27 33.540 5.78 0 17.27 33.540 5.78 24.35 358 358 .0000
10 17.00 33.550 6.20 10 17.00 33.550 6.20 24.42 351 351 .0355
20 17.51 33.870 6.52 20 17.51 33.870 6.52 24.55 340 340 .0701
30 18.70 34.120 6.50 30 18.70 34.180 6.50 24.49 365 346 .1045
50 18.32 34.180 6.50 50 18.32 34.180 6.50 24.59 336 337 .1729
75 18.47 34.240 7.00 75 18.47 34.240 7.00 24.59 335 337 .2573
100 16.03 34.240 5.91 100 16.03 34.240 5.91 25.18 280 287 .3348
125 14.49 34.210 6.20 125 14.49 34.210 6.20 25.49 250 253 .4018
150 14.55 34.060 ***** 150 14.55 34.060 ***** 25.36 262 266 .4657

206선 해양관측성적

Oceanographic Data. Line 206

Oceanographic Data. Line 200																	
OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , TAE EAFK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, FEB.14.1980, 06.10 YST, DEPTH 60 , COLOR , TRANS. . .

WAVE , SWELL , WIND , BARO 1024.5. AIR TEMP. DRY 4.2, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	11.31	34.470	5.51							0	11.31	34.470	5.51	26.33	170	170	.0000
10	11.28	34.470	5.66							10	11.28	34.470	5.66	26.33	170	170	.0170
20	11.40	34.420	6.25							20	11.40	34.420	6.25	26.27	176	176	.0344
30	11.43	34.480	5.69							30	11.43	34.480	5.69	26.31	172	172	.0518
50	11.48	34.480	6.76							50	11.48	34.480	6.76	26.30	173	174	.0865
55	11.38	34.480	5.41														

KOREA , TAE EAFK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, FEB.14.1980, 07.00 KST, DEPTH 70 , COLOR , TRANS. . .

WAVE , SWELL , WIND , BARO 1025. , AIR TEMP. DRY 4.5, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	11.29	34.540	5.60							0	11.29	34.540	5.60	26.00	202	201	.0000
10	11.46	34.550	5.29							10	11.46	34.550	5.29	25.97	204	204	.0203
20	11.00	34.600	5.78							20	11.00	34.600	5.78	26.10	192	192	.0402
30	11.32	34.570	5.51							30	11.32	34.570	5.51	26.21	181	182	.0589
50	12.30	34.570	5.51							50	12.30	34.570	5.51	26.22	181	182	.0953
65	12.94	34.55	5.41														

KOREA , TAE EAFK SAN , STATION 206-03 , 34-22.4. N, 128-41.5. E, FEB.14.1980, 08.00 KST, DEPTH 90 , COLOR , TRANS. . .

WAVE , SWELL , WIND NE 1, WIND NE 4, BARO 1026. , AIR TEMP. DRY 4.6, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	11.31	34.540	5.49							0	11.31	34.540	5.49	25.99	202	202	.0000
10	11.52	34.530	5.41							10	11.52	34.530	5.41	25.94	207	207	.0205
20	11.38	34.540	5.25							20	11.38	34.540	5.25	25.98	203	204	.0410
30	11.40	34.530	5.52							30	11.40	34.530	5.52	25.97	205	205	.0615

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	M02 N	M03 N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50 17.29 34.540 5.42
 75 17.29 34.530 5.41
 95 17.30 34.540 5.42

KOREA JAPANESE SAN STATION 206-04, 34-15.7 N, 128-08.0 E, FFE 14.1980, 10.20 VST, DEPTH 110, COLOP, TRANS.
 WAVE 3, SWELL 1, WIND NE 4, BARO 1027.0, AIR TEMP. 4.6, WFT
 0 13.30 34.530 5.95
 10 13.50 34.540 6.50
 20 13.46 34.550 5.80
 30 13.49 34.540 6.02
 50 17.52 34.540 5.82
 75 17.47 34.530 6.01
 100 12.51 34.550 5.61

KOREA JAPANESE SAN STATION 206-05, 34-09.1 N, 128-06.3 E, FFE 14.1980, 10.20 VST, DEPTH 130, COLOP 5, TRANS. 13.0.
 WAVE 4, SWELL 1, WIND NE 4, BARO 1028.0, AIR TEMP. 4.6, WFT
 0 17.50 34.530 5.31
 10 17.68 34.540 5.35
 20 17.52 34.540 5.50
 30 17.45 34.530 6.15
 50 17.46 34.530 6.02
 75 17.49 34.530 5.38
 100 17.46 34.520 5.00
 125 17.50 34.540 5.42

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

3월(March)

KOREA TAE PAK JAN STATION 206-01, 34-30.5' N, 129-24.5' E, WAF. 12.1950, 16.20 VET, DEPTH 62, COLDP 5, TRANS. 10.,
WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1017., AIR TEMP. DRY 13.0, WET ., CLOUD. TYPE ., AMT ., WEATHER BC,

0	13.11	34.600	7.51							0	13.11	34.600	7.51	26.08	194	193	.0000
10	13.10	34.620	7.39							10	13.10	34.620	7.39	26.10	192	192	.0193
20	13.05	34.620	6.30							20	13.05	34.620	6.30	26.11	191	191	.0386
30	13.02	34.630	6.37							30	13.02	34.630	6.37	26.12	190	190	.0577
50	13.05	34.620	6.40							50	13.05	34.620	6.40	26.11	191	192	.0960
57	12.94	34.630	6.40														

KOREA TAE PAK JAN STATION 206-02, 34-30.6' N, 129-21.2' E, WAF. 12.1950, 15.25 VET, DEPTH 70, COLDP 5, TRANS. 11.0,
WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1012., AIR TEMP. DRY 10.0, WET ., CLOUD. TYPE ., AMT ., WEATHER BC,

0	13.15	34.600	7.25							0	13.15	34.600	7.25	26.07	195	194	.0000
10	13.17	34.590	7.10							10	13.17	34.590	7.10	26.06	196	196	.0195
20	12.87	34.570	7.40							20	12.87	34.570	7.40	26.10	191	192	.0390
30	12.11	34.560	7.05							30	12.11	34.560	7.05	26.25	178	178	.0575
50	12.76	34.560	7.14							50	12.76	34.560	7.14	26.12	190	191	.0946
65	12.76	34.540	6.83														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE PAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, MAP. 12.1980, 18.40 VST, DEPTH 94 , COLOR , TRANS. . .
 WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.5, AIR TEMP. DRY 9.6, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	14.00	34.630	7.30							0	14.00	34.630	7.30	25.92	209	209	.0000
10	14.30	34.610	6.72							10	14.30	34.610	6.72	25.84	216	216	.0213
20	14.36	34.630	6.90							20	14.36	34.630	6.90	25.84	216	216	.0430
30	14.28	34.630	6.30							30	14.28	34.630	6.30	25.86	215	215	.0646
50	14.16	34.630	****							50	14.16	34.630	****	25.89	212	213	.1076
75	13.80	34.600	6.79							75	13.80	34.600	6.79	25.84	207	209	.1605
90	13.13	34.590	6.70														

KOREA , TAE PAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, MAP. 12.1980, 19.50 VST, DEPTH 110 , COLOR , TRANS. . .
 WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.8, AIR TEMP. DRY 9.4, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	12.30	34.530	6.99							0	12.30	34.530	6.99	26.19	184	183	.0000
10	12.94	34.500	7.69							10	12.94	34.500	7.69	26.04	198	198	.0191
20	12.36	34.520	7.20							20	12.36	34.520	7.20	26.17	186	186	.0383
30	12.08	34.490	9.00							30	12.08	34.490	8.00	26.20	183	183	.0568
50	11.99	34.520	7.00							50	11.99	34.520	7.00	26.24	179	180	.0932
75	11.22	34.480	7.75							75	11.22	34.480	7.75	26.35	168	170	.1370
100	10.78	34.450	7.13							100	10.78	34.450	7.13	26.41	163	165	.1789

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY								

KOREA ,TAE PAK SAN , STATION 206-05 , 34-08.1. N, 127-06.3. E, MAP.12-1980, 21.00 MST, DEPTH 130 , COLOR , TRANS. . .
 WAVE NE 3, SWELL NE 1, WIND NE 3, LARD 1020. , AIR TEMP. DRY 9.6, WFT . , CLOUD. TYPE , AM- , WEATHER C ,

0	13.62	34.510	6.60							0	13.62	34.510	6.60	25.91	210	210	.0000
10	13.70	34.520	6.30							10	13.70	34.520	6.30	25.90	211	211	.0211
20	13.95	34.510	6.49							20	13.95	34.510	6.49	25.84	217	217	.0426
30	13.95	34.470	6.40							30	13.95	34.470	6.40	25.81	220	220	.0645
50	14.04	34.470	6.48							50	14.04	34.470	6.48	25.79	222	223	.1088
75	14.71	34.490	6.60							75	13.71	34.490	6.60	25.87	214	215	.1637
100	17.05	34.490	6.60							100	13.05	34.490	6.60	26.01	201	203	.2161
125	12.05	34.510	6.50							125	12.05	34.510	6.50	26.22	181	183	.2645

4 월(April)

KOREA ,TAE PAK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, APR. 8,1980, 04.00 MST, DEPTH 62 , COLOR , TRANS. . .
 WAVE ?, SWELL 1, WIND NE 3, BARO 1018. , AIP TEMP. DRY 10.7, WET . , CLOUD. TYPE , AM- , WEATHER BC ,

0	12.85	34.510	6.72							0	12.85	34.510	6.72	26.06	195	195	.0000
10	12.75	34.520	6.02							10	12.75	34.520	6.02	26.09	193	193	.0194
20	12.40	34.510	6.90							20	12.40	34.510	6.90	26.15	187	187	.0385
30	12.35	34.520	6.55							30	12.35	34.520	6.55	26.17	165	166	.0572
50	17.39	34.510	6.60							50	12.39	34.510	6.60	26.15	127	128	.0947
75	12.30	34.500	6.61														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE PAK SAN , STATION 206-02 , 34-20.4. N, 128-41.2. E, APR. 8,1980, 03.00 WST, DEPTH 70 , COLOR , TRANS. . ,
 WAVE 2, SWELL 1, WIND NE 3, EASE 1017. , AIF TEMP. DRY 10.7, WET . , CLOUD. TYPE , AMT , WEATHER FC,
 0 12.08 34.530 7.72 0 12.98 34.530 7.72 26.05 196 106 .0000
 10 12.89 34.520 7.01 10 12.89 34.520 7.01 26.06 195 195 .0196
 20 12.77 34.510 7.82 20 12.77 34.510 7.82 26.08 194 104 .0302
 30 12.70 34.540 7.42 30 12.70 34.540 7.42 26.12 190 191 .0585
 50 12.14 34.520 7.12 50 12.14 34.520 7.12 26.21 182 182 .0959
 65 11.85 34.560 6.82

KOREA ,TAE PAK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, APR. 8,1980, 01.30 WST, DEPTH 94 , COLOR , TRANS. . ,
 WAVE 2, SWELL 2, WIND NE 3, EASE 1017. , AIF TEMP. DRY 10.7, WET . , CLOUD. TYPE , AMT , WEATHER FC,
 0 13.42 34.490 6.72 0 13.42 34.490 6.72 25.93 208 208 .0000
 10 13.32 34.510 6.61 10 13.32 34.510 6.61 25.97 204 204 .0206
 20 12.43 34.480 6.61 20 12.43 34.480 6.61 26.12 190 190 .0404
 30 12.42 34.460 6.10 30 12.42 34.460 6.10 26.11 191 192 .0595
 50 12.41 34.450 6.50 50 12.41 34.450 6.50 26.10 192 193 .0981
 75 11.44 34.560 6.90 75 11.44 34.560 6.90 26.37 166 168 .1432
 90 11.21 34.560 6.42

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA ,TAE BAEK SAN , STATION 206-04 , 34-15.7. N, 120-58.0. E, APP. 8.10.60, 00.10 VST, DEPTH 110 , COLOR , TRANS. . .

WAVE 2, SWELL 2, WIND NE 3, LARC 1017. , AIR TEMP. DRV 10.7, WFT . , CLOUD. TYPE , AMT , WEATHER FC.

0	14.59	34.460	6.41							0	14.59	34.480	6.41	25.68	232	232	.0000
10	14.54	34.460	6.61							10	14.54	34.460	6.61	25.67	232	232	.0232
20	14.44	34.490	6.31							20	14.44	34.490	6.31	25.72	228	228	.0463
30	14.23	34.440	6.31							30	14.23	34.440	6.31	25.73	228	228	.0692
50	14.20	34.440	6.05							50	14.20	34.440	6.05	25.73	227	228	.1149
75	12.72	34.410	6.72							75	12.72	34.410	6.72	26.01	200	202	.1688
100	12.48	34.470	6.63							100	12.48	34.470	6.63	26.10	191	194	.2183

KOREA ,TAE BAEK SAN , STATION 206-04 , 34-09.1. N, 120-06.3. E, APP. 7.10.60, 22.50 VST, DEPTH 130 , COLOR , TRANS. . .

WAVE 2, SWELL 2, WIND NE 3, LARC 1016. , AIR TEMP. DRV 10.7, WFT . , CLOUD. TYPE , AMT , WEATHER F ,

0	15.06	34.470	6.41							0	15.06	34.470	6.41	25.57	242	242	.0000
10	15.12	34.460	6.75							10	15.12	34.460	6.75	25.55	244	244	.0244
20	15.15	34.450	7.65							20	15.15	34.450	7.65	25.53	246	246	.0489
30	15.15	34.460	6.12							30	15.15	34.460	6.12	25.54	245	245	.0735
50	15.14	34.480	6.35							50	15.14	34.480	6.35	25.56	243	244	.1226
75	15.12	34.450	5.72							75	15.12	34.450	5.72	25.54	245	247	.1842
100	15.10	34.450	6.21							100	15.10	34.450	6.21	25.55	245	247	.2460
125	14.94	34.460	6.15							125	14.94	34.460	6.15	25.59	241	244	.3075

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY

6 월 (June)

JAF PARK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, JUN. 14, 1980, 13.450 KST, DEPTH 65 , COLOR , TRANS. ,
 WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1007. , AIR TEMP. DRY 20.6, WET
 0 19.35 33.770 6.12 0 19.35 33.770 6.12 24.01 390 390 .0000
 10 14.79 33.880 5.93 10 14.79 33.880 5.93 25.17 280 280 .0336
 20 14.47 33.970 5.72 20 14.47 33.970 5.72 25.31 267 267 .0609
 30 14.07 33.950 5.75 30 14.07 33.950 5.75 25.38 260 261 .0874
 50 13.80 33.930 ***** 50 13.80 33.930 ***** 25.42 256 257 .1393
 60 13.64 33.900 5.32

KOREA , JAF PARK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, JUN. 14, 1980, 21.00 KST, DEPTH 70 , COLOR , TRANS. ,
 WAVE , SWELL , WIND SE 2, BARO 1007. , AIR TEMP. DRY 21.7, WET
 0 18.89 33.770 5.84 0 18.89 33.770 5.84 24.13 379 379 .0000
 10 17.78 33.800 5.74 10 16.38 33.800 6.34 24.76 319 319 .0350
 20 17.40 34.030 5.27 20 13.40 34.030 5.23 25.58 241 241 .0631
 30 17.35 34.110 4.93 30 13.35 34.110 4.93 25.65 234 235 .0869
 50 17.27 34.120 5.12 50 13.27 34.120 5.12 25.68 232 233 .1338
 65 17.29 34.120 4.91

JAF PARK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, JUN. 14, 1980, 24.20 KST, DEPTH 94 , COLOR , TRANS. ,
 WAVE , SWELL , WIND E 2, BARO 1007. , AIR TEMP. DRY 21.0, WET
 0 21.04 33.590 6.04 0 21.04 33.590 6.04 23.43 446 446 .0000
 10 17.27 33.700 6.23 10 17.27 33.760 6.23 24.53 341 341 .0394

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	14.50	34.870	6.05							20	14.50	33.870	6.05	25.23	275	275	.0703
30	14.79	34.760	4.53							30	14.39	34.760	4.53	25.63	237	237	.0959
50	14.30	34.370	****							50	14.30	34.370	****	25.66	234	235	.1432
75	14.29	34.370	4.51							75	14.29	34.370	4.51	25.66	234	236	.2022
90	14.25	34.380	4.63														

KOREA ,TAE RAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, JUN.14.1980, 23.40 KST, DEPTH 110 , COLOR , TRANS. . .

WAVE NE 1, SWELL , WIND NE 2, BARO 1006.5, AIR TEMP. DRY 20.8, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	19.50	33.030	****							0	19.50	33.030	****	23.41	448	448	.0000
10	16.60	33.190	6.02							10	16.60	33.190	6.02	24.24	369	369	.0409
20	16.78	34.220	5.70							20	16.78	34.220	5.70	24.09	298	298	.0743
30	17.93	34.040	5.23							30	13.93	34.040	5.23	25.48	251	251	.1018
50	14.45	34.380	4.52							50	14.45	34.380	4.52	25.63	236	237	.1507
75	14.54	34.090	4.22							75	14.54	34.090	4.22	25.39	259	261	.2132
100	14.55	34.470	4.17							100	14.55	34.470	4.17	25.68	232	274	.2752

KOREA ,TAE RAEK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, JUN.15.1980, 01.00 KST, DEPTH 130 , COLOR , TRANS. . .

WAVE NE 1, SWELL , WIND NE 2, BARO 1006. , AIR TEMP. DRY 21.6, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	21.30	33.630	****							0	21.30	33.630	****	27.39	450	449	.0000
10	20.62	33.890	5.23							10	20.62	33.890	5.23	23.77	413	413	.0432
20	17.98	34.330	5.83							20	18.98	34.330	5.83	24.53	341	341	.0810
30	17.60	34.740	5.57							30	17.60	34.340	5.57	24.88	308	308	.1135
50	15.90	34.200	4.92							50	15.80	34.200	4.92	25.20	278	279	.1723

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	14.06	34.500	4.62							75	14.06	34.500	4.62	25.37	261	263	.2402
100	15.25	34.530	4.62							100	15.25	34.530	4.62	25.57	242	244	.3038
125	14.00	34.540	4.22							125	14.99	34.540	4.22	25.64	236	239	.3643

8월(August)

KOREA TAE PAK SAN , STATION 206-01 , 34-35.5. N, 126-34.5. E, AUG.15.1980, 18.50 VST, DEPTH 62 , COLOR , TRANS. . ,																	
WAVE NE 5, SWELL NE 2, WIND NE 5, EASED 1003.8, AIP TEMP. DRY 22.6, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	23.48	32.500	4.74							0	23.48	32.500	4.74	21.93	590	590	.0000
10	23.37	32.520	5.85							10	23.37	32.520	5.85	21.97	585	585	.0588
20	23.25	32.530	4.91							20	23.25	32.530	4.91	22.01	581	582	.1172
30	22.65	32.540	****							30	22.65	32.540	****	22.19	564	565	.1746
50	21.60	32.450	4.71							50	21.60	32.450	4.71	22.42	543	544	.2856
60	20.20	32.620	4.61														

KOREA TAE PAK SAN , STATION 206-02 , 34-29.6. N, 126-41.2. E, AUG.15.1980, 20.20 VST, DEPTH 70 , COLOR , TRANS. . ,																	
WAVE NE 5, SWELL E 1, WIND NE 5, EASED 1004.3, AIP TEMP. DRY 22.6, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	24.20	32.920	4.81							0	24.20	32.920	4.81	22.03	580	579	.0000
10	24.19	32.900	4.52							10	24.19	32.900	4.82	22.02	581	581	.0581
20	24.19	32.910	4.81							20	24.19	32.910	4.81	22.03	580	580	.1162
30	24.22	32.950	****							30	24.22	32.950	****	22.05	578	579	.1742
50	23.70	32.910	4.81							50	23.70	32.910	4.81	22.25	559	560	.2882
65	19.30	33.390	4.52														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE FAK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, AUG.15.1960, 71.30 KST, DEPTH 94 , COLOR , TRANS. , ,																	
WAVE HE 4, SWELL E 1, WIND NE 5, BARO 1004. , AIR TEMP. DRV 22.6, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	23.80	32.720	4.88							0	23.80	32.720	4.88	22.00	583	583	.0000
10	23.86	32.750	4.91							10	23.86	32.750	4.91	22.00	582	582	.0583
20	23.70	32.840	4.86							20	23.70	32.840	4.86	22.12	571	572	.1161
30	23.68	32.820	****							30	23.68	32.820	****	22.11	572	573	.1734
50	23.45	32.830	4.90							50	23.45	32.830	4.90	22.18	565	567	.2874
75	22.60	32.850	4.90							75	22.60	32.850	4.90	22.44	541	543	.4262
90	20.94	32.050	5.01														
KOREA ,TAE FAK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, AUG.15.1960, 72.50 KST, DEPTH 105 , COLOR , TRANS. , ,																	
WAVE NC 5, SWELL E 2, WIND NE 5, BARO 1004.3, AIR TEMP. DRV 22.8, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	23.70	32.320	4.91							0	23.70	32.320	4.91	21.73	609	609	.0000
10	23.51	32.750	4.86							10	23.51	32.750	4.86	22.11	573	573	.0591
20	22.80	32.890	4.90							20	22.80	32.890	4.90	22.42	543	543	.1150
30	22.48	32.910	****							30	22.48	32.910	****	22.52	533	534	.1689
50	21.36	32.050	4.71							50	21.36	32.050	4.71	22.70	554	555	.2779
75	21.32	32.060	4.88							75	21.32	32.060	4.88	22.95	492	494	.4071
100	18.24	32.360	4.50							100	18.24	32.360	4.50	23.98	394	396	.5205

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE EATK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, AUG.16.1980, 06.10 KST, DEPTH 130 , COLOR , TRANS. , ,																	
WAVE 1, SWELL 1, WIND NE 5, BARO 1005. , AIR TEMP. DRY 22.4, WET , , CLOUD. TYPE , AMT , WEATHER C ,																	
0	23.90	32.820	4.79							0	23.90	32.820	4.79	22.05	578	578	.0000
10	23.80	32.780	4.87							10	23.80	32.780	4.87	22.04	579	579	.0579
20	23.90	33.040	5.00							20	23.90	33.040	5.00	22.21	563	563	.1150
30	23.89	33.170	*****							30	23.89	33.170	*****	22.31	553	554	.1709
50	23.68	33.210	4.81							50	23.68	33.210	4.81	22.40	544	545	.2809
75	23.05	33.180	5.02							75	23.05	33.180	5.02	22.56	529	531	.4156
100	19.67	33.180	5.00							100	19.67	33.180	5.00	23.48	441	444	.5376
125	16.40	*****	4.91							125	16.40	*****	4.91	*****	***	***	*****

9 월 (September)

KOREA ,TAE EATK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, SEP.18.1980, 15.30 KST, DEPTH 64 , COLOR 3, TRANS. 15.0,																	
WAVE NE 5, SWELL N 2, WIND NE 5, BARO 1011. , AIR TEMP. DRY 23.0, WET , , CLOUD. TYPE AC, AMT 4, WEATHER BC,																	
0	22.94	31.610	5.78							0	22.94	31.610	5.78	21.41	640	639	.0000
10	22.96	31.630	5.50							10	22.96	31.630	5.50	21.42	639	639	.0639
20	27.02	31.700	5.91							20	23.02	31.700	5.91	21.45	635	635	.1277
30	22.24	32.100	5.91							30	22.24	32.100	5.91	21.08	585	586	.1888
50	20.14	32.860	5.31							50	20.14	32.860	5.31	23.12	476	477	.2952
60	17.08	33.730	4.02														

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA ,TAE BAEK SAN , STATION 206-03 , 34-20.6. N, 128-41.2. E, SEP.18.1980, 14.10 KST, DEPTH 70 , COLOR 3, TRANS. 15.0.
 WAVE NE 5, SWELL N 2, WIND NE 5, BARO 1011. , AIR TEMP. DRY 20.3, WET . , CLOUD. TYPE AC, AMT 4, WEATHER BC,
 0 23.20 31.870 5.30 0 23.20 31.870 5.30 21.53 628 627 .0000
 10 22.91 31.900 5.66 10 22.91 31.900 5.66 21.64 618 618 .0623
 20 23.44 31.900 5.91 20 23.44 31.900 5.91 21.48 632 632 .1249
 30 23.41 31.930 5.82 30 23.41 31.930 5.82 21.52 629 630 .1880
 50 23.20 32.180 5.41 50 23.20 32.180 5.41 21.77 605 607 .3118
 65 21.40 32.770 5.02

KOREA ,TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, SEP.17.1980, 12.30 KST, DEPTH 90 , COLOR 3, TRANS. 16.0.
 WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1012. , AIR TEMP. DRY 21.3, WET . , CLOUD. TYPE AC, AMT 4, WEATHER BC,
 0 23.15 31.460 6.61 0 23.15 31.460 6.61 21.24 656 656 .0000
 10 23.35 31.540 6.11 10 23.35 31.540 6.11 21.24 656 656 .0656
 20 23.60 31.910 6.50 20 23.60 31.910 6.50 21.45 636 636 .1303
 30 24.10 32.530 7.54 30 24.10 32.530 7.54 21.77 605 606 .1924
 50 21.89 32.570 5.60 50 21.89 32.570 5.60 22.43 542 543 .3074
 75 16.98 32.450 5.80 75 16.98 32.450 5.80 24.35 358 360 .4204
 85 14.61 34.420 4.90

KOREA ,TAE BAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, SEP.17.1980, 11.10 KST, DEPTH 110 , COLOR 3, TRANS. 16.0.
 WAVE 4, SWELL 1, WIND NW 4, BARO 1012. , AIR TEMP. DRY 22.0, WET . , CLOUD. TYPE AC, AMT 4, WEATHER BC,
 0 25.20 33.320 5.51 0 25.20 33.320 5.51 22.04 579 579 .0000
 10 25.21 33.310 5.35 10 25.21 33.310 5.35 22.02 580 581 .0580
 20 25.35 33.470 5.60 20 25.35 33.470 5.60 22.10 573 573 .1158

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	18.61	37.410	5.21							30	18.61	37.410	5.21	23.03	399	309	.1645
50	18.70	37.980	5.59							50	18.70	37.980	5.59	24.34	360	361	.2406
75	18.50	34.070	5.41							75	18.50	34.070	5.41	25.16	281	283	.3211
100	14.90	34.510	4.80							100	14.90	34.510	4.80	25.64	236	239	.3864
KOREA , TAE BAEK SAN , STATION 206-05 , 34-08.1. N , 120-06.3. E , SEP. 17, 1980, 09.50 KST, DEPTH 130 , COLOR 3, TRANSP. 13.0,																	
WAVE 4, SUELL 1, WIND NW 4, EARD 1012. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE AC, AMT 4, WEATHER PC,																	
0	25.30	37.470	5.23							0	25.30	37.470	5.23	22.12	572	571	.0000
10	25.52	37.430	5.88							10	25.52	37.430	5.88	22.02	581	581	.0577
20	25.51	37.440	5.40							20	25.51	37.440	5.40	22.03	580	580	.1158
30	25.10	37.730	5.41							30	25.10	37.730	5.41	22.77	547	548	.1722
50	20.10	34.120	4.62							50	20.10	34.180	4.62	24.13	379	381	.2651
75	17.89	34.170	4.01							75	17.89	34.170	4.01	24.68	327	329	.3539
100	17.56	34.320	3.96							100	17.56	34.320	3.96	24.88	308	311	.4339
125	16.66	34.270	4.01							125	16.66	34.270	4.01	25.05	291	295	.5098

10월(October)

KOREA , TAE BAEK SAN , STATION 206-01 , 34-35.5. N , 128-34.5. E , OCT. 8, 1980, 03.10 KST, DEPTH 62 , COLOR , TRANSP. ,																	
WAVE , SUELL , WIND , EARD 1010. , AIR TEMP. DRY 19.7, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	21.40	32.660	7.92							0	21.40	32.660	7.92	22.63	523	522	.0000
10	21.52	32.670	7.61							10	21.52	32.670	7.61	22.60	525	525	.0524

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

20 22.60 33.770 7.30
30 22.43 33.670 6.41
50 18.58 33.570 5.81
57 15.14 34.440 5.60

KOREA , TAE BAEK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, OCT. 8.1980, 01.45 PST, DEPTH 70 , COLOR , TRANS. ,
WAVE , SWELL , WIND , BARO 1010. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT , WEATHER ,
0 21.50 32.870 8.83 0 21.50 32.870 8.83 22.76 510 510 .0000
10 21.60 32.860 7.71 10 21.60 32.860 7.71 22.73 513 513 .0512
20 22.57 33.720 7.00 20 22.57 33.720 7.00 23.11 477 477 .1088
30 22.45 33.710 7.00 30 22.45 33.710 7.00 23.13 474 475 .1484
50 22.30 33.660 7.01 50 22.30 33.660 7.01 23.14 474 475 .2436
65 15.50 34.000 5.90

KOREA , TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, OCT. 8.1980, 00.30 PST, DEPTH 94 , COLOR , TRANS. ,
WAVE , SWELL , WIND , BARO 1010. , AIR TEMP. DRY 21.1, WET , CLOUD. TYPE , AMT , WEATHER ,
0 22.40 33.380 7.71 0 22.40 33.380 7.71 22.90 497 497 .0000
10 22.40 33.540 9.89 10 22.40 33.540 9.89 23.02 485 485 .0491
20 22.30 33.580 7.50 20 22.30 33.580 7.50 23.08 480 480 .0975
30 22.50 33.730 6.18 30 22.50 33.730 6.18 23.16 474 475 .1453
50 20.80 34.000 6.61 50 20.80 34.000 6.61 23.81 410 411 .2340
75 15.20 34.070 7.71 75 15.20 34.070 7.71 25.23 274 276 .3201
90 14.80 34.310 4.69

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA T	D-T	SVA	D-DY								

KOREA , TAE RACK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, OCT. 7. 1980, 23.00 KST, DEPTH 110 , COLOR , TRANS. . .
 WAVE , SWELL , WIND ,
 0 21.68 33.080 5.79 0 21.68 33.080 5.79 22.87 499 490 .0000
 10 21.67 33.080 7.59 10 21.67 33.080 7.59 22.87 499 499 .0500
 20 21.80 33.370 8.21 20 21.80 33.370 8.21 23.06 482 482 .0991
 30 21.70 33.540 7.08 30 21.70 33.540 7.08 23.21 467 467 .1456
 50 21.65 33.660 6.92 50 21.65 33.660 6.92 23.32 457 458 .2392
 75 17.75 33.790 6.12 75 17.75 33.790 6.12 24.43 351 351 .3407
 105 15.20 34.410 5.73 100 15.63 34.307 5.79 25.32 266 269 .4186

KOREA , TAE RACK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, OCT. 7. 1980, 21.30 KST, DEPTH 130 , COLOR , TRANS. . .
 WAVE , SWELL , WIND ,
 0 24.50 33.640 6.40 0 24.50 33.640 6.40 22.49 536 536 .0000
 10 22.60 33.620 9.40 10 22.60 33.620 8.40 23.02 485 485 .0511
 20 22.20 33.550 7.51 20 22.20 33.550 7.51 27.08 470 480 .0904
 30 22.20 33.780 9.30 30 22.20 33.780 8.30 23.26 463 463 .1466
 50 21.00 33.490 6.90 50 21.00 33.490 6.90 23.37 452 453 .2383
 75 21.35 33.540 6.30 75 21.35 33.540 6.30 23.31 458 460 .3526
 100 21.00 33.690 6.90 100 21.00 33.690 6.90 23.52 438 440 .4652
 125 15.20 34.460 5.45 125 15.20 34.460 5.45 25.53 246 249 .5516

OBSERVED																		INTERPOLATED						CALCULATED					
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY												

12월(December)

KOREA ,TAE PAEK SAN , STATION 206-01 , 34-35.5. N, 128-14.5. E, DEC-11.1980, 04.30 KST, DEPTH 62 , COLOR , TRANS. . .

WAVE S 3, SWELL S 1, WIND NE 3, BARO 1015. , AIR TEMP. DRY 12.6, WET . , CLOUD. TYPE , AMT , WEATHER BC, .0000

0 14.20 33.780 6.84 0 14.20 33.780 6.84 25.22 275 275 .0000

10 14.29 33.740 7.58 10 14.29 33.740 7.58 25.17 280 280 .0278

20 14.28 33.760 6.77 20 14.28 33.760 6.77 25.19 278 279 .0558

30 14.30 33.720 6.12 30 14.30 33.720 6.12 25.16 282 282 .0839

50 14.32 33.760 6.72 50 14.32 33.760 6.72 25.18 279 280 .1402

57 14.35 33.760 7.31

KOREA ,TAE PAEK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, DEC-11.1980, 03.40 KST, DEPTH 70 , COLOR , TRANS. . .

WAVE S 3, SWELL S 1, WIND SE 3, BARO 1015. , AIR TEMP. DRY 13.4, WET . , CLOUD. TYPE , AMT , WEATHER C, .0000

0 15.71 33.490 6.78 0 15.71 33.490 6.78 24.67 328 327 .0000

10 15.80 7.42 10 15.80 7.42 24.67 328 327 .0000

20 14.85 33.480 6.79 20 14.85 33.480 6.79 24.85 310 311 .0000

30 14.50 33.560 6.93 30 14.50 33.580 6.93 25.01 296 296 .0000

50 14.20 33.610 7.08 50 14.20 33.610 7.08 25.09 288 289 .0000

65 14.23 33.640 6.15

KOREA ,TAE PAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, DEC-11.1980, 02.30 KST, DEPTH 95 , COLOR , TRANS. . .

WAVE S 3, SWELL S 1, WIND SE 3, BARO 1014. , AIR TEMP. DRY 13.0, WET . , CLOUD. TYPE , AMT , WEATHER C, .0000

0 14.78 33.420 5.80 0 14.78 33.420 5.80 24.82 313 313 .0000

10 14.60 33.510 6.02 10 14.60 33.510 6.02 24.93 303 303 .0309

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

20	14.49	33.690	5.21						20	14.49	33.690	5.21	25.09	282	288	.0605
30	14.49	33.710	5.15						30	14.49	33.710	5.15	25.11	286	287	.0892
50	14.37	33.710	6.12						50	14.37	33.710	6.12	25.13	284	285	.1465
75	14.47	33.710	5.92						75	14.47	33.710	5.92	25.11	286	287	.2181
90	14.45	33.690	5.72													

KOREA TAE PAK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, DEC.11.1980, 01.20 VST, DEPTH 110 , COLOR , TRANS. , ,

WAVE S 3, SWELL S 1, WIND SE 3, BARO 1014. , AIR TEMP. DRY 12.0, WFT , CLOUD, TYPE , AMT , WEATHER C ,

0	14.61	*****	6.21						0	14.61	*****	6.21	*****	***	***	.0000
10	14.42	33.210	6.82						10	14.42	33.210	6.82	24.74	321	321	*****
20	14.20	33.470	5.61						20	14.20	33.470	5.61	24.98	298	298	*****
30	14.18	33.570	*****						30	14.18	33.570	*****	25.07	290	291	*****
50	14.19	33.610	6.22						50	14.19	33.610	6.22	25.09	288	289	*****
75	14.07	33.610	6.71						75	14.07	33.610	6.71	25.12	285	287	
100	14.06	33.610	6.32						100	14.06	33.610	6.32	25.12	285	287	

KOREA TAE PAK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, DEC.11.1980, 00.10 VST, DEPTH 130 , COLOR , TRANS. , ,

WAVE S 3, SWELL E 1, WIND NE 3, BARO 1014. , AIR TEMP. DRY 11.6, WFT , CLOUD, TYPE , AMT , WEATHER C ,

0	14.14	33.530	6.32						0	14.14	33.530	6.32	25.04	292	292	.0000
10	14.08	*****	5.61						10	14.08	*****	5.61	*****	***	***	*****
20	14.19	33.570	6.22						20	14.19	33.570	6.22	25.06	290	291	*****
30	14.18	33.600	5.91						30	14.18	33.600	5.91	25.09	288	289	*****
50	14.18	33.620	6.02						50	14.18	33.620	6.02	25.07	290	291	*****
75	14.20	*****	*****						75	14.20	*****	*****	*****	***	***	*****
100	14.20	33.730	6.38						100	14.20	33.730	6.38	25.14	297	295	*****
125	14.00	33.720	6.12						125	14.00	33.720	6.12	25.20	297	290	*****

205선 해양관측성적 Oceanographic Data. Line 205

OCEANOGRAPHIC DATA: LINE 209																	
OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, FEB.13.1980, 08.50 VST, DEPTH 55 , COLOR 7, TRANS. 8.0.
 WAVE 4, SWELL 1, WIND NE 5, BARO 1022. , AIP TEMP. DRY 3.5, WFT . , CLOUD. TYPE CI, AMT 3, WEATHER PC,
 0 8.00 34.450 6.52 0 8.00 34.450 6.52 26.86 120 119 .0000
 10 8.08 34.490 6.29 10 8.08 34.490 6.29 26.88 118 118 .0119
 20 8.09 34.450 6.21 20 8.09 34.450 6.21 26.85 121 121 .0279
 30 7.88 34.430 6.19 30 7.88 34.430 6.19 26.86 119 120 .0359
 50 7.70 34.430 6.15 50 7.70 34.430 6.15 26.89 117 117 .0597

KOREA , TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, FEB.13.1980, 09.40 VST, DEPTH 60 , COLOR 6, TRANS. 9.0.
 WAVE 4, SWELL 1, WIND NE 5, BARO 1022. , AIP TEMP. DRY 3.5, WFT . , CLOUD. TYPE CI, AMT 3, WEATHER EC,
 0 9.84 34.480 5.72 0 9.84 34.480 5.72 26.59 145 145 .0000
 10 9.88 34.540 6.81 10 9.88 34.540 6.81 26.63 141 141 .0143
 20 9.50 34.520 6.61 20 9.50 34.520 6.61 26.68 137 137 .0283
 30 8.71 34.490 6.31 30 8.31 34.490 6.31 26.85 121 121 .0413
 50 7.90 34.550 6.28 50 7.90 34.550 6.28 26.96 111 111 .0546

KOREA , TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-51.9. E, FEB.13.1980, 10.50 VST, DEPTH 85 , COLOR 5, TRANS. 9.0.
 WAVE 4, SWELL 1, WIND NE 5, BARO 1022. , AIP TEMP. DRY 3.5, WFT . , CLOUD. TYPE CI, AMT 3, WEATHER PC,
 0 11.63 34.610 5.65 0 11.63 34.610 5.65 26.78 166 165 .0000
 10 11.85 34.590 5.70 10 11.85 34.590 5.70 26.72 171 171 .0169
 20 10.79 34.550 5.92 20 10.79 34.550 5.92 26.48 156 156 .0333

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

30 10.31 34.570 5.78
 50 10.04 34.550 6.12
 75 9.86 34.550 5.41

KOREA , TAE BAK SAN , STATION 205-04 , 33-51.5. N , 128-03.0. E , FEB. 13, 1980, 14.30 KST, DEPTH 85 , COLOR 4, TRANS. 12.0.
 WAVE 4, SWELL 1, WIND NE 4, BARO 1022.5, AIP TEMP. DRY 4.0, WET . , CLOUD. TYPE CI, AM- 5, WEATHER FC,
 0 17.81 34.580 5.60
 10 17.80 34.560 5.44
 20 17.80 34.550 6.01
 30 11.19 34.520 5.68
 50 10.39 34.510 5.82
 75 10.23 34.500 5.81

KOREA , TAE BAK SAN , STATION 205-05 , 33-37.3. N , 128-09.2. E , FEB. 13, 1980, 14.10 KST, DEPTH 115 , COLOR 4, TRANS. 12.0.
 WAVE 4, SWELL 1, WIND NE 4, BARO 1023. , AIP TEMP. DRY 7.0, WET . , CLOUD. TYPE CI, AMT 6, WEATHER FC,

0 17.41 34.550 5.31
 10 17.41 34.550 5.42
 20 17.25 34.540 5.61
 30 17.03 34.540 5.51
 50 12.69 34.540 5.41
 75 12.52 34.450 5.41
 100 11.79 34.430 6.02
 110 11.70 34.430 5.76

OBSERVED																	INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									

3월(March)

KOREA ,TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, MAR.13.1980, 10.00 KST, DEPTH 54 , COLOR 6, TRANS. 10.0.
 WAVE NE 7, SWELL NE 1, WIND NE 3, BARO 1021.2, AIR TEMP. DRY 15.8, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	12.31	34.570	7.40						0	12.31	34.570	7.40	26.21	181	181	.0000
10	12.30	34.580	7.30						10	12.30	34.580	7.30	26.22	180	180	.0181
20	12.25	34.560	7.42						20	12.25	34.560	7.42	26.22	181	181	.0362
30	12.22	*****	7.45						30	12.22	*****	7.45	*****	***	***	*****
50	11.50	34.570	6.90						50	11.50	34.570	6.90	26.37	166	167	*****

KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, MAR.13.1980, 11.00 KST, DEPTH 60 , COLOR 5, TRANS. 11.0.
 WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.6, AIR TEMP. DRY 12.7, WET , CLOUD. TYPE , AMT , WEATHER BC ,

0	12.06	34.410	6.80						0	13.06	34.410	6.80	25.94	207	206	.0000
10	13.00	34.420	7.40						10	13.00	34.420	7.40	25.96	205	205	.0206
20	12.21	34.470	7.05						20	12.21	34.470	7.05	26.16	187	187	.0402
30	11.96	34.480	6.92						30	11.96	34.480	6.92	26.21	181	182	.0587
50	11.08	34.520	6.70						50	11.98	34.520	6.70	26.24	179	180	.0949

KOREA ,TAE BAEK SAN , STATION 205-07 , 34-05.5. N, 127-51.9. E, MAR.13.1980, 12.10 KST, DEPTH 86 , COLOR 5, TRANS. 10.0.
 WAVE E 2, SWELL E 1, WIND NE 3, BARO 1018. , AIR TEMP. DRY 13.0, WET , CLOUD. TYPE , AMT , WEATHER BC ,

0	13.10	34.490	7.00						0	13.10	34.490	7.00	26.00	202	201	.0000
10	13.05	34.480	6.50						10	13.05	34.480	6.50	26.00	201	201	.0202
20	12.21	34.570	6.10						20	12.21	34.570	6.10	26.23	179	179	.0393

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	11.82	34.470	6.25							30	11.82	34.470	6.25	26.23	179	180	.0573
50	11.43	34.450	6.80							50	11.43	34.450	6.80	26.29	174	175	.0929
75	9.85	34.510	6.85							75	9.85	34.510	6.85	26.61	143	144	.1329
KOREA ,TAE PAK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, MAR.13.1980, 13.50 KST, DEPTH 85 , COLOR 4, TRANS. 15.0,																	
WAVE E 2, SWELL NE 1, WIND E 3, BARO 1017. , AIR TEMP. DRY 12.8, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	14.46	*****	5.88							0	14.46	*****	5.88	*****	***	***	.0000
10	14.41	34.540	5.80							10	14.41	34.540	5.80	25.76	224	224	*****
20	14.41	34.540	5.83							20	14.41	34.540	5.83	25.76	224	224	*****
30	14.40	34.550	6.10							30	14.40	34.550	6.10	25.77	223	223	*****
50	14.35	34.520	5.81							50	14.35	34.520	5.81	25.76	224	225	*****
75	13.20	34.530	5.90							75	13.20	34.530	5.90	26.01	201	202	*****
KOREA ,TAE PAK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, MAR.13.1980, 15.30 KST, DEPTH 105 , COLOR 4, TRANS. 17.0,																	
WAVE E 2, SWELL NE 1, WIND E 3, BARO 1016.5, AIP TEMP. DRY 13.7, WET , CLOUD. TYPE , AMT , WEATHER BC,																	
0	14.50	34.560	5.98							0	14.50	34.560	5.98	25.76	224	224	.0000
10	14.31	34.530	5.70							10	14.31	34.530	5.70	25.78	223	223	.0224
20	14.09	34.530	5.75							20	14.09	34.530	5.75	25.82	218	218	.0445
30	14.31	34.550	5.78							30	14.31	34.550	5.78	25.79	221	222	.0665
50	14.40	34.690	5.79							50	14.40	34.690	5.79	25.88	213	214	.1101
75	14.30	34.560	5.79							75	14.30	34.560	5.79	25.80	220	222	.1647
100	14.35	34.550	5.68							100	14.35	34.550	5.68	25.78	222	224	.2206

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 205-06 , 33-23.8. N, 128-14.3. E, MAR.13.1980, 17.10 KST, DEPTH 115 , COLOR 4, TPANS. 18.0.
 WAVE E 2, SHELL NE 1, WIND E 3, BARO 1016. , AIP TEMP. DRY 12.7, WET . , CLOUD. TYPE . , AMT . WEATHER C ,
 0 14.68 34.690 5.79 0 14.68 34.690 5.79 25.82 218 218 .0000
 10 14.65 34.540 5.70 10 14.65 34.540 5.70 25.71 229 229 .0224
 20 14.61 34.680 5.78 20 14.61 34.680 5.78 25.83 218 218 .0448
 30 14.57 34.680 6.10 30 14.57 34.680 6.10 25.84 217 217 .0666
 50 14.58 34.720 6.00 50 14.58 34.720 6.00 25.87 214 215 .1099
 75 14.61 34.670 5.88 75 14.61 34.670 5.88 25.82 218 220 .1645
 100 14.12 34.680 5.65 100 14.12 34.680 5.65 25.93 208 210 .2184

KOREA ,TAE BAEK SAN , STATION 205-07 , 33-09.7. N, 128-21.3. E, MAR.13.1980, 18.50 KST, DEPTH 140 , COLOR . , TPANS. . ,
 WAVE E 2, SHELL NE 1, WIND E 3, BARO 1016. , AIP TEMP. DRY 12.6, WET . , CLOUD. TYPE . , AMT . WEATHER C ,
 0 14.83 34.690 6.55 0 14.83 34.690 6.55 25.79 221 221 .0000
 10 14.95 34.700 6.38 10 14.95 34.700 6.38 25.77 223 223 .0223
 20 14.94 34.690 6.60 20 14.94 34.690 6.60 25.76 224 224 .0447
 30 14.83 34.700 6.40 30 14.83 34.700 6.40 25.80 221 221 .0670
 50 14.90 34.710 6.18 50 14.90 34.710 6.18 25.79 221 223 .1115
 75 14.99 34.690 6.23 75 14.99 34.690 6.23 25.75 225 227 .1677
 100 14.90 34.690 ***** 100 14.90 34.690 ***** 25.77 223 225 .2244
 135 14.82 34.780 6.60 125 14.84 34.754 ***** 25.84 217 220 .2802

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D T	SVA	D-DY
KOREA JAF PAK SAN STATION 205-08, 32-55.0. N, 122-27.0. E, MAP. 17.1980, 70.30 VS, DEPTH 180, COLOR, TRANS. . .																	
WAVE HE 7, SWELL HE 1, WIND 17, FRO 1014, AIR TEMP. DRY 12.1, WET ., CLOUD. TYPE, AMT, WEATHER C, . .																	
0	14.65	34.710	6.60							0	14.65	34.710	6.60	25.94	216	216	.0000
10	14.62	34.690	6.40							10	14.62	34.690	6.40	25.93	217	217	.0217
20	14.75	34.690	6.00							20	14.75	34.690	6.00	25.81	220	220	.0436
30	14.69	34.690	6.02							30	14.69	34.690	6.02	25.82	219	219	.0656
50	14.64	34.700	6.00							50	14.64	34.700	6.00	25.84	217	218	.1094
75	14.70	34.670	6.10							75	14.70	34.670	6.10	25.80	220	222	.1645
100	14.56	34.690	6.00							100	14.56	34.690	6.00	25.85	216	218	.2197
125	14.40	34.690	6.20							125	14.40	34.690	6.20	25.88	213	216	.2741
150	14.30	34.690	6.75							150	14.30	34.690	6.75	25.90	211	214	.3280
184	14.30	34.690	6.90														

4 월(April)

KOREA , JAF PAK SAN , STATION 205-01 , 34-22.3. N, 127-42.5. E, APR.12.1980, 80.60 VS, DEPTH 54 , COLOR , TRANS. . .																		
WAVE 7, SWELL 1, WIND 4, FRC 1014. , AIR TEMP. DRY 13.7, WET . , CLOUD. TYPE , AMT , WEATHER C , . .																		
0	12.15	34.420	7.00							0	12.15	34.420	7.00	26.13	189	189	.0000	
10	12.17	34.390	6.73							10	12.13	34.390	6.73	26.11	191	191	.0190	
20	11.86	34.400	6.82							20	11.86	34.400	6.82	26.17	185	185	.0379	
30	11.80	34.440	6.72							30	11.80	34.440	6.72	26.21	181	182	.0563	
50	11.51	34.400	6.80							50	11.51	34.400	6.80	26.23	179	180	.0926	

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, APR.11.1980, 22.50 KST, DEPTH 60 , COLOR , TRANS. . .																	
WAVE 3, SWELL 1, WIND E 4, EARD 1014. , AIR TEMP. DRY 14.0, WET . , CLOUD. TYPE , AMT , WEATHER P ,																	
0	12.70	34.390	7.00							0	12.70	34.390	7.00	26.00	201	201	.0000
10	12.59	34.390	7.02							10	12.59	34.390	7.02	26.02	199	199	.0201
20	12.21	34.400	7.15							20	12.21	34.400	7.15	26.10	192	192	.0397
30	11.97	34.410	6.52							30	11.97	34.410	6.52	26.16	187	187	.0587
50	11.80	34.420	6.33							50	11.80	34.420	6.33	26.20	183	184	.0958
KOREA ,TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-51.9. E, APR.11.1980, 21.30 KST, DEPTH 86 , COLOR , TRANS. . .																	
WAVE 3, SWELL 1, WIND E 4, EARD 1014. , AIR TEMP. DRY 15.0, WET . , CLOUD. TYPE , AMT , WEATHER P ,																	
0	14.83	34.330	6.31							0	14.83	34.330	6.31	24.74	321	321	.0000
10	14.81	34.490	6.61							10	14.81	34.490	6.61	25.64	236	236	.0279
20	14.80	34.490	5.95							20	14.80	34.490	5.95	25.64	235	236	.0515
30	14.78	34.470	6.29							30	14.78	34.470	6.29	25.63	237	237	.0752
50	14.78	34.450	6.05							50	14.78	34.450	6.05	25.61	238	239	.1229
75	12.77	34.490	5.92							75	12.77	34.490	5.92	26.06	195	197	.1775
KOREA ,TAE BAEK SAN , STATION 205-04 , 32-51.5. N, 128-03.0. E, APR.11.1980, 19.40 KST, DEPTH 85 , COLOR , TRANS. . .																	
WAVE 3, SWELL 1, WIND NE 4, EARD 1014. , AIR TEMP. DRY 15.7, WET . , CLOUD. TYPE , AMT , WEATHER C ,																	
0	15.40	34.530	6.28							0	15.40	34.530	6.28	25.54	245	245	.0000
10	15.27	34.520	6.38							10	15.27	34.520	6.38	25.56	243	243	.0244
20	15.20	34.530	6.31							20	15.20	34.530	6.31	25.58	241	241	.0487
30	15.20	34.520	6.02							30	15.20	34.520	6.02	25.58	242	242	.0759
50	15.19	34.510	6.15							50	15.19	34.510	6.15	25.57	242	243	.1215
75	13.75	34.450	6.24							75	13.75	34.450	6.24	25.83	217	219	.1764

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE FAK SAN , STATION 205-05 , 37-37.3. N, 127-09.2. E, APR. 11, 1980, 17.50 VST, DEPTH 115 , COLOR 4, TRANS. 12.0,																	
WAVE 7, SWELL 1, WIND NE 4, BARO 1014.5, AIR TEMP. DRY 15.8, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	15.80	34.550	7.71							0	15.80	34.550	7.71	25.47	252	252	.0000
10	15.75	34.570	7.02							10	15.75	34.570	7.02	25.49	250	250	.0251
20	15.70	34.560	5.98							20	15.70	34.560	5.98	25.50	249	250	.0501
30	15.63	34.580	5.81							30	15.63	34.580	5.81	25.53	246	247	.0750
50	15.63	34.550	6.52							50	15.63	34.550	6.52	25.50	249	250	.1248
75	15.55	34.560	7.20							75	15.55	34.560	7.20	25.53	246	248	.1871
100	14.78	34.530	5.61							100	14.78	34.530	5.61	25.68	232	235	.2475
110	14.65	34.550	6.11														

6 월 (June)

KOREA , TAE FAK SAN , STATION 205-01 , 37-22.3. N, 127-48.5. E, JUN. 11. 1980, 11.30 VST, DEPTH 55 , COLOR 6, TRANS. 6.0,																	
WAVE W 1, SWELL , WIND W 2, BARO 1003.5, AIR TEMP. DRY 24.6, WET . , CLOUD. TYPE CC, AMT 6, WEATHER FC,																	
0	19.01	35.430	5.74							0	19.01	35.430	5.74	23.84	407	407	.0000
10	16.40	35.780	5.95							10	16.40	35.780	5.95	24.74	321	321	.0364
20	15.91	35.820	4.62							20	15.91	35.820	4.62	25.31	267	267	.0659
30	17.71	35.790	4.53							30	13.71	35.790	4.53	25.33	265	265	.0926
50	17.70	35.830	4.93							50	13.70	35.830	4.93	25.37	262	263	.1455

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, JUN.11.1980, 12.40 VST, DEPTH 60 , COLOR 5, TRANS. 6.0,
 WAVE NW 2, SWELL , WIND NW 2, BARO 1003. , AIR TEMP. DRY 25.0, WFT . , CLOUD. TYPE CC, AMT 4, WEATHER PC,
 0 17.75 37.690 5.88 0 17.75 33.690 5.88 24.35 358 358 .0000
 10 14.35 33.800 6.04 10 14.35 33.800 6.04 25.21 277 277 .0318
 20 14.00 33.970 5.43 20 14.00 33.970 5.43 25.41 257 258 .0586
 30 14.60 34.010 5.52 30 14.60 34.010 5.52 25.32 266 267 .0848
 50 14.18 34.020 5.36 50 14.18 34.020 5.36 25.41 257 258 .1375

KOREA ,TAE BAEK SAN , STATION 205-02 , 34-05.5. N, 127-51.9. E, JUN.11.1980, 14.00 VST, DEPTH 90 , COLOR 4, TRANS. 15.0,
 WAVE NW 2, SWELL , WIND NW 2, BARO 1002.2, AIR TEMP. DRY 23.4, WFT . , CLOUD. TYPE CC, AMT 3, WEATHER PC,
 0 17.49 33.210 5.75 0 17.49 33.210 5.75 24.05 387 387 .0000
 10 14.41 33.110 6.68 10 14.41 33.110 6.68 24.66 329 329 .0358
 20 14.31 ***** 6.43 20 14.31 ***** 6.43 *** ***
 30 14.18 34.110 5.67 30 14.18 34.110 5.67 25.48 251 251 *****
 50 14.34 34.250 5.54 50 14.34 34.250 5.54 25.56 244 245 *****
 75 17.18 34.230 6.83 75 13.18 34.230 6.83 25.78 222 224 *****

KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, JUN.11.1980, 15.50 VST, DEPTH 90 , COLOR 4, TRANS. 15.0,
 WAVE NW 1, SWELL , WIND NW 2, BARO 1002. , AIR TEMP. DRY 21.8, WFT . , CLOUD. TYPE CC, AMT 6, WEATHER BC,
 0 20.05 32.890 5.50 0 20.05 32.890 5.50 23.16 472 471 .0000
 10 19.44 33.450 5.23 10 19.44 33.450 5.23 23.75 416 416 .0444
 20 19.86 34.170 5.33 20 19.86 34.170 5.33 24.19 374 374 .0840

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	17.78	37.870	5.12							30	17.38	37.870	5.12	24.58	337	337	.1196
50	15.95	34.750	4.02							50	15.95	34.350	6.02	28.28	270	271	.1805
75	15.34	34.590	4.72							75	15.34	34.590	4.72	25.60	239	241	.2447
85	14.90	34.550	4.51														

KOREA TAE BAEK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, JUN.11.1980, 17.40 KST, DEPTH 116 , COLOR 3, TRANS. 17.0.

WAVE NW 1, SWELL , WIND NW 2, BARO 1002. , AIR TEMP. DRY 21.8, WET , CLOUD. TYPE CC, AMT 4, WEATHER EC,

0	21.55	37.860	5.13							0	21.55	33.800	5.13	23.45	444	444	.0000
10	20.45	32.850	****							10	20.45	33.850	****	23.79	412	412	.0428
20	16.58	37.050	5.27							20	16.58	33.950	5.27	24.83	313	313	.0791
30	16.90	****	5.12							30	16.90	****	5.12	****	***	***	*****
50	16.05	37.060	4.59							50	16.05	33.960	4.59	24.06	301	302	*****
75	15.55	34.510	4.84							75	15.55	34.510	4.84	25.49	250	252	*****
100	15.06	34.580	4.42							100	15.06	34.580	4.42	25.65	234	237	*****

8월(August)

KOREA TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, AUG.14.1980, 20.50 KST, DEPTH 53 , COLOR , TRANS. ,

WAVE 2, SWELL 2, WIND SW 3, BARO 1005. , AIR TEMP. DRY 21.7, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	22.90	32.520	5.29							0	22.90	32.520	5.29	22.11	573	572	.0000
10	22.85	32.560	4.81							10	22.85	32.560	4.81	22.15	568	568	.0571
20	22.85	32.550	4.83							20	22.85	32.550	4.83	22.14	569	569	.1140
30	22.80	32.550	4.90							30	22.80	32.550	4.90	22.16	568	568	.1710
50	22.31	32.560	4.63							50	22.31	32.550	4.63	22.30	555	556	.2875

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA ,TAE PAK SAN , STATION 205-03 , 34-15.0. N, 127-52.1. E, AUG.14.1980, 21.50 YST, DEPTH 60 , COLOR , TRANS. . .																		
WAVE 2, SWELL 2, WIND SW 3, BARO 1006. , AIR TEMP. DRY 23.0, WET 0 24.09 32.530 4.91 21.77 605 604 .0000																		
10 24.08 32.620 4.94 21.84 598 598 .0602																		
20 24.03 32.610 4.98 21.85 597 598 .1200																		
30 23.87 32.650 4.90 21.93 590 591 .1795																		
50 21.48 32.820 4.89 22.73 513 514 .2901																		
KOREA ,TAE PAK SAN , STATION 205-03 , 34-05.5. N, 127-51.9. E, AUG.14.1980, 23.10 YST, DEPTH 85 , COLOR , TRANS. . .																		
WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1006. , AIR TEMP. DRY 23.8, WET 0 26.15 32.990 5.11 21.50 631 631 .0000																		
10 24.39 32.580 4.89 21.72 610 610 .0621																		
20 24.31 32.610 4.88 21.77 605 606 .1229																		
30 23.90 32.740 5.02 21.99 584 585 .1825																		
50 21.36 ***** 21.36 ***** *** *****																		
75 20.20 32.650 4.80 22.94 493 495 *****																		
KOREA ,TAE PAK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, AUG.15.1980, 01.00 YST, DEPTH 80 , COLOR , TRANS. . .																		
WAVE SW 2, SWELL SW 1, WIND S 3, BARO 1006. , AIR TEMP. DRY 24.2, WET 0 24.50 32.990 4.90 22.00 583 583 .0000																		
10 24.53 32.030 4.81 22.02 581 581 .0582																		
20 24.53 32.050 4.81 22.03 580 580 .1164																		
30 24.58 32.270 4.81 22.27 557 558 .1733																		
50 17.70 32.410 5.41 24.15 378 379 .2671																		
75 15.34 32.770 4.91 24.97 299 301 .3522																		

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY
KOREA , JAE PARK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, AUG.18.1980, 12.50 PST, DEPTH 115 , COLOR , TRANS. , ,																	
WAVE SW 2, SWELL SW 1, WIND S 3, BARO 1005.5, AIR TEMP. DRY 24.4, WET , , CLOUD. TYPE , AMT , WEATHER C ,																	
0	24.50	32.790	4.99							0	24.50	32.790	4.99	21.85	598	597	.0000
10	24.30	32.760	4.90							10	24.30	32.760	4.90	21.88	594	594	.0596
20	24.46	32.870	4.90							20	24.46	32.870	4.90	21.92	591	591	.1189
30	24.19	32.920	4.99							30	24.19	32.920	4.99	22.04	579	580	.1775
50	18.32	33.030	4.91							50	18.32	33.030	4.91	23.71	420	421	.2777
75	19.61	34.340	4.80							75	19.61	34.340	4.80	24.78	355	358	.3751
100	15.61	34.060	4.71							100	15.61	34.060	4.71	25.13	284	286	.4557
110	14.60	34.260	4.30														

9월(September)

KOREA , JAE PARK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, SEP.16.1980, 18.20 PST, DEPTH 54 , COLOR , TRANS. , ,																		
WAVE 7, SWELL 1, WIND NW 3, BARO 1010. , AIR TEMP. DRY 24.0, WET , CLOUD. TYPE CS, AMT 7, WEATHER BC,																		
0	24.37	31.610	5.41							0	24.37	31.610	5.41	21.00	679	679	.0000	
10	27.81	31.620	5.65							10	23.81	31.620	5.65	21.17	663	663	.0671	
20	23.41	31.600	5.17							20	23.41	31.600	5.17	21.27	653	653	.1330	
30	23.30	31.580	5.60							30	23.30	31.580	5.60	21.28	651	652	.1983	
50	20.05	32.860	4.61							50	20.05	32.860	4.61	23.16	472	474	.3110	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, SEP.16.1980, 19.20 KST, DEPTH 60 , COLOR , TRANS. . .

WAVE 3, SWELL 1, WIND NW 3, BARO 1010. , AIR TEMP. DRY 23.0, WET . , CLOUD. TYPE , AMT , WEATHER FC,

0	24.21	32.220	5.49							0	24.21	32.220	5.49	21.50	631	630	.0000
10	24.21	32.220	5.52							10	24.21	32.220	5.52	21.50	631	631	.0631
20	24.23	32.340	5.11							20	24.23	32.340	5.11	21.59	622	623	.1258
30	22.50	32.340	5.41							30	22.50	32.340	5.41	22.08	575	575	.1858
50	17.90	33.390	5.12							50	17.90	33.390	5.12	24.09	384	385	.2819

KOREA ,TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-51.9. E, SEP.15.1980, 12.40 KST, DEPTH 80 , COLOR 2, TRANS. 22.0,

WAVE NE 2, SWELL , WIND NE 2, BARO 1012. , AIR TEMP. DRY 27.4, WET . , CLOUD. TYPE CS, AMT 2, WEATHER B ,

0	24.21	31.790	5.95							0	24.21	31.790	5.95	21.18	662	661	.0000
10	23.07	31.710	5.71							10	23.07	31.710	5.71	21.45	636	636	.0649
20	20.13	32.810	5.73							20	20.13	32.810	5.73	23.08	470	480	.1207
30	17.63	33.340	4.62							30	17.63	33.340	4.62	24.11	321	322	.1638
50	14.97	34.240	4.12							50	14.97	34.240	4.12	25.41	257	258	.2279
75	14.88	34.280	4.31							75	14.88	34.280	4.31	25.46	252	254	.2921

KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 126-03.0. E, SEP.15.1980, 10.50 KST, DEPTH 90 , COLOR 2, TRANS. 25.0,

WAVE N 2, SWELL , WIND N 2, BARO 1012.5, AIR TEMP. DRY 25.7, WET . , CLOUD. TYPE , AMT , WEATHER B ,

0	23.54	32.130	6.31							0	23.54	32.130	6.31	21.63	618	618	.0000
10	23.05	32.160	5.85							10	23.05	32.160	5.85	21.79	603	603	.0611
20	22.80	32.200	5.86							20	22.80	32.200	5.86	21.89	593	593	.1209

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	M02-N	M03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA T	D T	SVA	D DY

30	20.66	32.810	5.41							30	20.66	32.810	5.41	22.04	493	403	.1753
40	18.00	32.710	5.01							50	18.00	32.710	5.01	24.09	383	300	.2672
75	15.25	34.790	4.81							75	15.25	34.790	4.81	25.79	250	261	.3441
85	15.07	34.430	3.91														

KOREA ,TAE BAK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, SEP.14.1980, 08.20 KST, DEPTH 102 , COLOR 3, TRANS. 20.0,
 WAVE NE 2, SWELL N 1, WIND NE 2, BARO 1014.4, AIP TEMP. DRY 26.0, WET . , CLOUD. TYPE , AMT , WEATHER BC,
 0 25.10 37.270 5.05 22.00 582 583 .0000
 10 25.00 37.220 5.51 22.02 581 581 .0582
 20 25.10 37.240 5.34 22.01 582 582 .1165
 30 25.12 37.560 5.14 22.24 560 561 .1737
 50 19.40 34.270 4.12 24.38 355 357 .2655
 75 17.68 34.310 4.00 24.84 312 314 .3494
 100 17.14 34.290 3.74 24.96 301 303 .4266

KOREA ,TAE BAK SAN , STATION 205-06 , 33-27.8. N, 128-14.3. E, SEP.14.1980, 00.00 KST, DEPTH 110 , COLOR , TRANS. . ,
 WAVE 2, SWELL 1, WIND NW 2, BARO 1007.5, AIP TEMP. DRY 25.8, WET . , CLOUD. TYPE , AMT , WEATHER BC,
 0 25.30 37.680 ***** 22.28 556 556 .0000
 10 25.10 37.690 5.61 22.34 550 550 .0564
 20 25.03 37.640 5.16 22.37 548 548 .1103
 30 20.00 34.170 4.72 24.15 378 378 .1567

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50	16.98	34.220	4.91							50	16.98	34.220	4.91	24.45	349	350	.2256
75	17.80	34.130	4.26							75	17.80	34.130	4.26	24.67	327	329	.3147
100	17.30	34.240	4.56							100	17.30	34.240	4.56	24.88	308	311	.3948
105	17.13	34.330	4.46														

KOREA TAE BAK SAN , STATION 205-07 , 33-09.7. N, 128-21.3. E, SEP.14.1980, 01.50 PST, DEPTH 130 , COLOR , TRANSP. , ,

WAVE 2, SWELL 1, WIND NW 2, BARO 1008. , AIR TEMP. DRY 27.5, WET 0 26.00 33.660 6.30 22.05 578 578 .0000

10 20.01 33.520 6.02 23.65 425 425 .0502

20 26.08 33.530 5.48 21.92 590 591 .1010

30 25.70 33.550 5.70 22.06 578 578 .1505

50 23.06 34.110 4.79 23.26 462 463 .2638

75 21.51 34.240 ***** 23.80 411 413 .3735

100 19.50 34.350 4.34 24.42 352 355 .4696

125 18.70 34.450 3.61 24.70 325 329 .5552

KOREA TAE BAK SAN , STATION 205-08 , 32-55.0. N, 128-27.0. E, SEP.14.1980, 03.40 PST, DEPTH 130 , COLOR , TRANSP. , ,

WAVE 2, SWELL 1, WIND NW 2, BARO 1008. , AIR TEMP. DRY 27.3, WET 0 26.40 33.270 5.41 21.63 618 618 .0000

10 26.56 33.680 5.41 21.89 594 594 .0607

20 26.70 33.630 6.01 21.80 602 602 .1205

30 26.60 33.620 5.21 21.83 590 600 .1806

50 26.60 33.620 5.71 21.83 599 601 .3008

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	20.32	37.920	4.20							75	20.32	37.920	4.20	22.98	4.04	406	.4267
100	18.25	34.150	4.11							100	18.25	34.150	4.11	24.58	3.76	379	.5200
125	16.61	34.560	4.40							125	16.61	34.560	4.40	25.29	2.69	273	.5965
150	16.10	34.540	4.51							150	16.10	34.540	4.51	25.79	2.50	243	.6677
175	14.20	34.510	4.11														

10월(October)

KOREA , JAE PAK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, OCT. 9. 1980, 01.20 VST, DEPTH 52 , COLOR , TRANS. . .

WAVE , SWELL , WIND , BARO 1014. , AIP TEMP. DRV 10.7, WET , CLOUD. TYPE , AMT , WEATHER ,

0	21.20	32.160	5.21							0	21.20	32.160	5.21	22.30	5.54	553	.0000
10	21.25	32.160	5.40							10	21.25	32.160	5.40	22.29	5.55	555	.0555
20	21.15	32.350	6.01							20	21.15	32.350	6.01	22.46	5.39	529	.1102
30	20.78	32.350	5.00							30	20.78	32.350	5.00	22.56	5.29	520	.1637
47	18.82	33.100	4.71														

KOREA , JAE PAK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, OCT. 9. 1980, 00.00 VST, DEPTH 60 , COLOR , TRANS. . .

WAVE , SWELL , WIND , BARO 1010. , AIP TEMP. DRV 10.6, WET , CLOUD. TYPE , AMT , WEATHER ,

0	21.30	32.410	5.51							0	21.30	32.410	5.51	22.47	5.38	578	.0000
10	21.30	32.410	5.29							10	21.30	32.410	5.29	22.47	5.38	528	.0538
20	21.30	32.810	5.31							20	21.30	32.810	5.31	22.77	5.09	509	.1063
30	21.36	32.010	5.21							30	21.36	32.210	5.21	22.06	4.82	482	.1559
55	20.19	32.140	6.00							50	20.42	32.154	5.84	23.27	4.62	443	.2506

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE PAK SAN , STATION 205-03 , 34-05.5. N, 127-51.9. E, OCT. 8.1980, 22.50 KST, DEPTH 85 , COLOR , TRANS. . .

WAVE , SWELL , WIND , EARD 1011. , AIR TEMP. DRY 19.5, WET

0	21.53	32.500	6.61							0	21.53	32.580	6.61	22.53	532	571	.0000
10	21.49	32.550	6.61							10	21.49	32.550	6.61	22.52	533	573	.0533
20	20.80	33.000	6.51							20	20.80	33.080	6.51	23.11	477	477	.1038
30	19.24	33.070	6.02							30	19.24	33.070	6.02	23.51	439	439	.1497
50	15.32	33.230	7.11							50	15.32	33.330	7.11	24.64	331	332	.2269
75	13.68	33.840	6.07							75	13.68	33.840	6.07	25.38	261	262	.3013

KOREA , TAE PAK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, OCT. 8.1980, 21.00 KST, DEPTH 85 , COLOR , TRANS. . .

WAVE , SWELL , WIND , EARD 1011. , AIR TEMP. DRY 19.5, WET

0	21.00	32.600	8.30							0	21.00	32.660	8.30	22.74	512	512	.0000
10	20.93	32.700	6.80							10	20.93	32.700	6.80	22.79	508	508	.0510
20	21.69	33.370	6.55							20	21.69	33.370	6.55	23.09	479	479	.1004
30	20.69	33.480	6.20							30	20.69	33.480	6.20	23.44	445	446	.1467
50	14.54	33.220	5.21							50	14.54	33.220	5.21	24.28	365	366	.2280
75	14.85	33.500	5.17							75	14.85	33.380	5.17	24.78	318	319	.3138

KOREA , TAE PAK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, OCT. 8.1980, 19.10 KST, DEPTH 116 , COLOR , TRANS. . .

WAVE , SWELL , WIND , EARD 1012. , AIR TEMP. DRY 19.7, WET

0	22.20	33.430	6.41							0	22.20	33.430	6.41	22.99	488	488	.0000
10	22.27	33.450	6.00							10	22.27	33.450	6.00	22.99	488	488	.0439
20	22.50	33.630	7.91							20	22.50	33.630	7.91	23.06	482	482	.0974

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	21.11	33.770	5.90							30	21.11	33.770	5.90	23.52	438	438	.1435
50	18.34	33.770	6.50							50	18.34	33.770	6.50	24.27	366	367	.2241
75	16.54	33.810	5.40							75	16.54	33.810	5.20	24.73	322	324	.3107
100	16.25	33.910	6.21							100	16.25	33.910	6.21	24.87	309	311	.3902
140	15.90	33.920	6.80														

12월(December)

KOREA , TAE PAK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, DEC.16.1980, 01.00 KST, DEPTH 00 , CLOUD , WEATHER ,
 WAVE W 5, SWELL W 1, WIND NW 5, BARO 1022.5, AIR TEMP. DRY 3.6, WET 0 12.13 33.320 6.21 25.28 270 269 .0000
 10 12.22 33.270 6.28 25.23 275 275 .0273
 20 12.22 33.250 6.60 25.21 276 277 .0549
 30 12.29 33.250 6.20 25.20 278 278 .0827
 50 12.25 33.250 6.10 25.20 277 278 .1384

KOREA , TAE PAK SAN , STATION 205-01 , 34-15.0. N, 127-52.1. E, DEC.16.1980, 01.00 KST, DEPTH 00 , CLOUD , WEATHER ,
 WAVE W 4, SWELL W 1, WIND NW 5, BARO 1022.5, AIR TEMP. DRY 4.0, WET 0 14.30 33.700 5.92 25.14 283 283 .0000
 10 14.31 33.710 5.95 25.15 283 283 .0283
 20 14.38 33.710 6.20 25.13 284 284 .0367
 30 14.39 33.710 5.73 25.13 284 285 .0852
 50 14.48 33.750 5.54 25.14 283 284 .1422

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA , TAE EAFK SAN , STATION 205-03 , 34-05.5. N, 127-51.9. E, DEC.15.1980, 23.50 KST, DEPTH 86 , COLOR , TRANS. .
 WAVE W 4, SWELL W 1, WIND NW 5, BARO 1022.5, AIP TEMP. DRY 4.6, WET . , CLOUD. TYPE , AMT , WEATHER FC,

0	14.48	33.760	5.62							0	14.48	33.760	5.62	25.15	282	282	.0000
10	14.66	33.740	5.30							10	14.66	33.740	5.30	25.09	287	287	.0285
20	14.70	33.820	6.21							20	14.70	33.820	6.21	25.15	282	283	.0571
30	14.78	33.810	5.32							30	14.78	33.810	5.32	25.12	285	285	.0855
50	14.80	33.750	5.71							50	14.80	33.750	5.71	25.07	290	291	.1432
75	14.80	33.810	5.60							75	14.80	33.810	5.60	25.10	287	289	.2158

KOREA , TAE EAFK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, DEC.15.1980, 22.10 KST, DEPTH 85 , COLOR , TRANS. .
 WAVE W 5, SWELL W 1, WIND NW 5, BARO 1022.5, AIP TEMP. DRY 4.6, WET . , CLOUD. TYPE , AMT , WEATHER FC,

0	15.10	33.550	6.10							0	15.10	33.550	6.10	24.85	310	310	.0000
10	15.00	33.610	5.54							10	15.00	33.610	5.54	24.92	304	304	.0308
20	14.77	33.670	5.60							20	14.77	33.670	5.60	25.02	295	295	.0608
30	14.47	33.670	5.30							30	14.47	33.670	5.30	25.08	289	289	.0900
50	14.47	33.660	5.21							50	14.47	33.660	5.21	25.07	289	290	.1481
75	14.68	33.710	5.32							75	14.68	33.710	5.32	25.07	290	292	.2210

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D T	SVA	D-DY
KORCA , TAF BAK SAN , STATION 205-01 , 32-37.3. W, 128-09.2. E, DEC.15,1980, 20.30 KST, DEPTH 120 , COLOR , TRANS. . ,																	
WAVE W S, SUELL W 1, WIND NW 5, EARO 1022.5, AIR TEMP. DRY 6.2, WET . , CLOUD. TYPE , AM , WEATHER EC,																	
0	17.00	34.090	6.21							0	17.00	34.090	6.21	24.84	312	312	.0000
10	17.00	33.980	6.02							10	17.00	33.980	6.02	24.75	320	320	.0316
20	17.06	*****	6.98							20	17.06	*****	6.98	*****	***	***	*****
30	17.08	*****	6.10							30	17.08	*****	6.10	*****	***	***	*****
50	17.09	33.910	5.90							50	17.09	33.910	5.90	24.68	327	328	*****
75	17.11	33.910	6.20							75	17.11	33.910	6.20	24.67	328	320	*****
100	17.18	34.010	5.43							100	17.18	34.010	5.43	24.73	322	325	*****
115	17.44	34.160	6.10														

204선 해양관측성적

Oceanographic Data. Line 204

Oceanographic Data, Line 20*																	
OBSERVED									INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , TAE EAK SAN , STATION 204-01 , 34-20.9. N, 127-43.9. E, FEB.13.1980, 06.20 KST, DEPTH 35 , COLOR 7, TRANS. 8.0,
 WAVE 4, SWELL 1, WIND NE 5, BARO 1022. , AIR TEMP. DRY 3.3, WFT . , CLOUD. TYPE CI, AMT 3, WEATHER PC,
 0 9.82 34.510 5.75 0 9.82 34.510 5.75 26.62 143 142 .0000
 10 9.79 34.520 6.11 10 9.79 34.520 6.11 26.63 141 141 .0142
 20 9.83 34.500 5.71 20 9.83 34.500 5.71 26.61 143 144 .0285
 30 8.42 34.480 6.22 30 8.42 34.480 6.22 26.82 123 124 .0419

KOREA , TAE EAK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, FEB.13.1980, 07.10 KST, DEPTH 25 , COLOR , TRANS. ,
 WAVE 4, SWELL 1, WIND NE 5, BARO 1022. , AIR TEMP. DRY 3.0, WFT . , CLOUD. TYPE CI, AMT 3, WEATHER CC,
 0 9.61 34.510 5.49 0 9.61 34.510 5.49 26.66 139 139 .0000
 10 9.62 34.520 5.82 10 9.62 34.520 5.82 26.66 139 139 .0139
 20 8.55 34.510 5.92 20 8.55 34.510 5.92 26.83 123 123 .0271
 23 7.49 34.430 6.30

KOREA , TAE EAK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, FEB.13.1980, 06.00 KST, DEPTH 45 , COLOR , TRANS. ,
 WAVE 4, SWELL 1, WIND NE 5, BARO 1021.5, AIR TEMP. DRY 3.2, WFT . , CLOUD. TYPE , AMT , WEATHER ,
 0 10.44 34.450 5.81 0 10.44 34.450 5.81 26.47 157 157 .0000
 10 10.45 34.470 6.00 10 10.45 34.470 6.00 26.48 156 156 .0157
 20 10.52 34.490 5.35 20 10.52 34.490 5.35 26.48 155 156 .0313
 30 10.60 34.510 6.31 30 10.60 34.510 6.31 26.49 155 156 .0469
 40 10.65 34.540 5.91

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	M02-N	M03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY
KORFA , TAF PARK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, FEB.12.1980, 04.20 KST, DEPTH 75 , COLOR , TRANS. , ,																	
WAVE	, SWELL , WIND , BARO 1023.5 , AIR TEMP. DRY 74.2, WET 4.5, WFT , CLOUD. TYPE , AMT , WEATHER ,																
0	14.74	34.740	5.62							0	14.54	34.740	5.62	25.58	241	241	.0000
10	14.60	34.750	5.60							10	14.69	34.350	5.60	25.56	241	241	.0243
20	14.62	34.400	5.62							20	14.62	34.400	5.62	25.61	238	239	.0484
30	14.70	34.410	5.60							30	14.30	34.410	5.60	25.69	231	232	.0720
50	14.73	34.420	5.48							50	14.23	34.420	5.48	25.71	229	270	.1122
70	14.27	34.420	5.43														
KORFA , TAF PARK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, FEB.12.1980, 01.10 KST, DEPTH 90 , COLOR , TRANS. , ,																	
WAVE	, SWELL , WIND , BARO 1023.5 , AIR TEMP. DRY 6.7, WFT , CLOUD. TYPE , AMT , WEATHER ,																
0	15.02	34.400	5.48							0	15.02	34.400	5.48	25.52	247	246	.0000
10	15.58	34.410	5.45							10	15.58	34.410	5.45	25.41	258	258	.0252
20	15.47	34.410	5.50							20	15.47	34.410	5.50	25.43	255	256	.0510
30	15.30	34.420	5.45							30	15.30	34.420	5.45	25.48	251	252	.0764
50	15.01	34.430	5.43							50	15.01	34.430	5.43	25.55	244	245	.1262
70	14.97	34.430	5.40							75	14.97	34.430	5.40	25.56	243	245	.1876
85	14.53	34.440	5.31														
KORFA , TAF PARK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, FEB.12.1980, 00.00 KST, DEPTH 125 , COLOR , TRANS. , ,																	
WAVE	, SWELL , WIND , BARO 1023.5, AIR TEMP. DRY 74.2, WET , CLOUD. TYPE , AMT , WEATHER ,																
0	15.57	34.720	5.82							0	15.57	34.320	5.82	25.34	264	264	.0000
10	15.67	34.730	5.73							10	15.63	34.330	5.73	25.34	265	265	.0265
20	15.60	34.740	5.70							20	15.60	34.320	5.70	25.33	265	265	.0530
30	15.54	34.740	5.42							30	15.56	34.320	5.42	25.74	264	264	.0765

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

50	15.37	34.330	5.43							50	15.37	34.330	5.43	25.39	259	260	.1321
75	15.13	34.330	5.44							75	15.13	34.330	5.44	25.45	254	256	.1967
100	14.98	34.340	5.37							100	14.98	34.340	5.37	25.49	250	253	.2604
120	14.83	34.340	5.35														

3 월(March)

KOREA TAE PAK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, MAR.16.1980, 12.50 PST, DEPTH 30 , COLOR 6, TRANS. 5.0,																		
WAVE H 2, SWELL HW 1, WIND N 2, BARO 1020. , AIR TEMP. DRY 11.6, WFT . , FLOUD. TYPE , AMT , WEATHER B ,																		
0	12.35	34.530	7.40							0	12.35	34.580	7.40	26.21	181	181	.0000	
10	11.62	34.570	6.95							10	11.62	34.570	6.95	26.35	169	168	.0175	
20	11.58	34.560	6.90							20	11.58	34.560	6.90	26.35	169	169	.0344	
30	11.31	34.590	7.00							30	11.31	34.590	7.00	26.42	162	162	.0510	

KOREA , TAE PAK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, MAR.16.1980, 11.40 PST, DEPTH 28 , COLOR 7, TRANS. 4.0,																	
WAVE H 2, SWELL H 1, WIND N 3, BARO 1020. , AIR TEMP. DRY 10.7, WFT . , CLCUD. TYPE , AMT , WEATHER B ,																	
0	11.04	34.550	7.42							0	11.04	34.550	7.48	26.44	160	160	.0000
10	11.02	34.530	7.86							10	11.02	34.530	7.86	26.43	161	161	.0161
20	10.76	34.530	7.35							20	10.76	34.530	7.35	26.47	157	157	.0320
23	10.63	34.500	7.40														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE PAK SAN , STATION 204-07 , 34-06.7. N, 127-26.8. E, MAR.16.1980, 10.30 KST, DEPTH 45 , COLOR 7, TRANS. 4. ,																	
WAVE NW 2, SWELL N 1, WIND N 3, BARO 1020.6, AIR TEMP. DRY 10.4, WET																	
0	10.60	34.380	6.90							0	10.60	34.380	6.90	26.38	165	165	.0000
10	10.60	34.380	6.70							10	10.60	34.380	6.70	26.38	165	165	.0165
20	10.58	34.370	6.43							20	10.58	34.370	6.43	26.38	165	165	.0331
30	10.21	34.340	6.70							30	10.21	34.340	6.70	26.42	161	162	.0495
40	10.19	34.340	6.87														
KOREA ,TAE PAK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, MAR.15.1980, 13.30 KST, DEPTH 75 , COLOR 5, TRANS. 13.0, ,																	
WAVE NW 3, SWELL NW 1, WIND NW 4, BARO 1022. , AIR TEMP. DRY 9.8, WET																	
0	12.80	34.370	6.10							0	12.80	34.370	6.10	25.96	205	205	.0000
10	12.88	34.370	6.10							10	12.88	34.370	6.10	25.95	206	206	.0206
20	12.74	34.360	6.12							20	12.74	34.360	6.12	25.97	204	205	.0412
30	12.79	34.400	6.10							30	12.79	34.400	6.10	25.99	202	203	.0616
50	12.99	34.380	6.10							50	12.99	34.380	6.10	25.93	208	209	.1029
70	13.01	34.550	5.95														
KOREA ,TAE PAK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, MAR.15.1980, 12.20 KST, DEPTH 90 , COLOR 4, TRANS. 15.0, ,																	
WAVE NW 3, SWELL NW 1, WIND NW 4, BARO 1022. , AIR TEMP. DRY 8.6, WET																	
0	12.95	34.240	5.62							0	12.95	34.240	5.62	25.83	217	217	.0000
10	12.98	34.240	5.98							10	12.98	34.240	5.98	25.83	218	218	.0218
20	12.91	34.290	6.00							20	12.91	34.290	6.00	25.88	213	213	.0434
30	12.76	34.490	6.00							30	12.76	34.490	6.00	26.06	195	196	.0638
50	12.80	34.510	7.10							50	12.80	34.510	7.10	26.07	195	195	.1031
75	12.80	34.520	6.10							75	12.80	34.520	6.10	26.08	194	195	.1520
95	12.79	34.530	6.00														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA ,TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, MAR.15.1980, 11.00 KST, DEPTH 12F , COLOR 3, TRANS. 15.0.																		
WAVE NW 4, SWELL NW 1, WIND NW 5, BARO 1022. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE , AMT , WEATHER F ,																		
0	14.25	34.670	6.35							0	14.25	34.670	6.35	25.90	211	211	.0000	
10	14.80	34.620	6.70							10	14.80	34.620	6.70	25.74	226	226	.0219	
20	14.79	34.590	6.68							20	14.79	34.590	6.68	25.72	228	228	.0446	
30	14.77	*****	*****							30	14.77	*****	*****	*****	***	***	*****	
50	14.70	34.590	*****							50	14.70	34.590	*****	25.74	226	227	*****	
75	14.79	34.640	6.60							75	14.79	34.640	6.60	25.76	224	226	*****	
100	13.36	34.620	6.28							100	13.36	34.620	6.28	26.04	197	199	*****	
125	13.33	*****	6.01							125	13.33	*****	6.01	*****	***	***	*****	
4월(April)																		
KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, APR.12.1980, 00.50 KST, DEPTH 34 , COLOR , TRANS. ,																		
WAVE 3, SWELL 1, WIND E 4, BARO 1014. , AIR TEMP. DRY 13.5, WET , CLOUD. TYPE , AMT , WEATHER C ,																		
0	11.86	34.360	6.30							0	11.86	34.360	6.30	26.14	188	188	.0000	
10	11.88	34.330	6.77							10	11.88	34.330	6.31	26.15	187	187	.0188	
20	11.88	34.370	6.22							20	11.88	34.370	6.22	26.14	188	188	.0376	
30	11.82	34.470	6.61							30	11.82	34.470	6.61	26.23	179	180	.0561	
KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, APR.12.1980, 02.00 KST, DEPTH 28 , COLOR , TRANS. ,																		
WAVE 3, SWELL 1, WIND E 4, BARO 1014. , AIR TEMP. DRY 13.7, WET , CLOUD. TYPE , AMT , WEATHER C ,																		
0	12.10	34.330	6.81							0	12.10	34.330	6.81	26.07	195	195	.0000	
10	11.07	34.330	4.40							10	11.07	34.330	6.40	26.09	192	192	.0194	
20	12.00	34.360	6.22							20	12.00	34.360	6.22	26.11	191	191	.0386	
23	11.00	34.340	4.35															

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE PAK SAN , STATION 204-07 , 34-04.7. N, 127-26.8. E, APR. 12, 1980, 03.20 KST, DEPTH 45 , COLOR , TRANS. , ,																	
WAVE	7, SWELL	2, WIND SE	4, BARO 1012.0	AIR TEMP. DRY	14.7, WET	, CLOUD. TYPE , AMT , WEATHER F ,											
0	12.60	34.380	6.90							0	12.60	34.380	6.90	26.01	200	200	.0000
10	12.60	34.390	6.62							10	12.60	34.390	6.68	26.02	200	200	.0200
20	12.60	34.400	7.03							20	12.60	34.400	7.03	26.03	199	199	.0400
30	12.53	34.410	7.51							30	12.53	34.410	7.51	26.05	197	197	.0599
40	12.40	34.420	6.82														
KOREA , TAE PAK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, APR. 14, 1980, 17.40 KST, DEPTH 75 , COLOR , TRANS. , ,																	
WAVE	2, SWELL	3, WIND NW	3, BARO 1011.0	AIR TEMP. DRY	9.1, WET	, CLOUD. TYPE CU, AMT 10, WEATHER C ,											
0	13.10	34.310	6.72							0	13.10	34.310	6.72	25.96	215	215	.0215
10	13.08	34.310	6.34							10	13.08	34.310	6.34	25.86	215	214	.0215
20	13.05	34.290	6.21							20	13.05	34.290	6.21	25.85	215	216	.0431
30	12.87	34.260	6.51							30	12.87	34.260	6.51	25.87	214	215	.0646
50	12.86	34.260	6.30							50	12.86	34.260	6.30	25.87	214	215	.1077
70	12.75	34.260	6.03														
KOREA , TAE PAK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, APR. 14, 1980, 19.00 KST, DEPTH 90 , COLOR , TRANS. , ,																	
WAVE	2, SWELL	3, WIND NW	3, BARO 1012.0	AIR TEMP. DRY	8.4, WET	, CLOUD. TYPE , AMT , WEATHER P ,											
0	14.15	34.390	6.11							0	14.15	34.390	6.11	25.70	230	229	.0000
10	14.10	34.390	6.12							10	14.10	34.390	6.12	25.71	229	229	.0229
20	14.14	34.400	5.91							20	14.14	34.400	5.91	25.71	229	229	.0459
30	14.17	34.380	6.31							30	14.17	34.380	6.31	25.69	231	231	.0689
50	14.15	34.390	6.32							50	14.15	34.390	6.32	25.70	230	231	.1152
75	13.45	34.110	6.10							75	13.45	34.110	6.10	25.63	236	238	.1739
90	13.30	34.290	6.06														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA ,TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, APR.14,1980, 20.20 KST, DEPTH 128 , COLOR , TRANS. . . .
 WAVE 2, SWELL 3, WIND NW 5, EARD 1012. , AIP TEMP. DRY 8.3, WET . , CLOUD. TYPE , AMT , WEATHER F ,
 0 14.53 34.500 6.01 0 14.53 34.500 6.01 25.71 229 229 .0000
 10 14.50 34.500 6.18 10 14.50 34.500 6.18 25.71 229 229 .0229
 20 14.59 34.510 5.81 20 14.59 34.510 5.81 25.70 230 230 .0459
 30 14.60 34.510 6.24 30 14.60 34.510 6.24 25.70 230 230 .0690
 50 14.60 34.500 5.41 50 14.60 34.500 5.41 25.69 231 232 .1153
 75 14.60 34.500 5.94 75 14.60 34.500 5.94 25.69 231 232 .1734
 100 14.54 34.450 5.91 100 14.54 34.450 5.91 25.67 233 235 .2320
 125 14.12 34.490 5.81 125 14.12 34.490 5.81 25.79 222 225 .2897

6월(June)

KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, JUN.11,1980, 10.40 KST, DEPTH 35 , COLOR 6, TRANS. 7.0,
 WAVE NW 1, SWELL , WIND NW 2, BARO 1003. , AIP TEMP. DRY 23.9, WET . , CLOUD. TYPE CC, AMT 10, WEATHER C ,
 0 18.93 33.680 5.53 0 18.93 33.680 5.53 24.05 387 387 .0000
 10 17.75 33.680 5.73 10 17.75 33.680 5.73 24.34 359 359 .0373
 20 14.46 33.790 5.12 20 14.46 33.790 5.12 25.18 280 280 .0693
 30 14.03 33.870 5.05 30 14.03 33.870 5.05 25.33 265 266 .0967

KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, JUN.11,1980, 09.20 KST, DEPTH 30 , COLOR 7, TPANS. 4.0,
 WAVE NW 1, SWELL , WIND NW 2, BARO 1003.5, AIP TEMP. DRY 19.0, WET . , CLOUD. TYPE AC, AMT 10, WEATHER C ,
 0 17.50 33.650 5.63 0 17.50 33.650 5.63 24.38 355 355 .0000
 10 15.70 33.730 5.73 10 15.70 33.730 5.73 24.86 310 310 .0333
 20 14.12 33.990 5.15 20 14.12 33.990 5.15 25.40 258 259 .0618
 25 14.05 34.010 6.01

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE BAEK SAN , STATION 204-07 , 34-06.7. N, 127-26.8. E, JUN.11.1980. 06.00 KST, DEPTH 45 , COLOR , TRANS. . .																	
WAVE NW 1, SWELL , WIND NW 2, BARO 1003.5, AIR TEMP. DRY 17.0, WET . , CLOUD. TYPE AC, AMT 10, WEATHER C ,																	
0	16.07	33.500	6.01							0	16.07	33.500	6.01	24.60	335	334	.0000
10	17.40	33.540	5.83							10	15.40	33.540	5.83	24.78	317	317	.0326
20	14.49	33.690	5.63							20	14.49	33.690	5.63	25.09	288	288	.0630
30	14.10	33.910	5.50							30	14.10	33.910	5.50	25.34	264	264	.0906
40	14.15	34.020	5.23														
KOREA , TAE BAEK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, JUN.11.1980. 06.10 KST, DEPTH 75 , COLOR , TRANS. . .																	
WAVE N 2, SWELL NW 1, WIND N 2, BARO 1003.5, AIR TEMP. DRY 17.4, WET . , CLOUD. TYPE SC, AMT 10, WEATHER C ,																	
0	17.13	32.760	6.34							0	17.13	32.760	6.34	23.79	412	412	.0000
10	16.77	32.770	6.17							10	16.77	32.770	6.17	23.88	403	403	.0408
20	13.36	33.000	6.64							20	13.36	33.000	6.64	24.79	316	316	.0768
30	11.74	33.580	5.22							30	11.74	33.580	5.22	25.56	244	244	.1049
50	13.50	34.120	5.62							50	13.50	34.120	5.62	25.63	237	238	.1531
70	14.07	34.320	5.13														
KOREA , TAE BAEK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, JUN.11.1980. 04.50 KST, DEPTH 90 , COLOR , TRANS. . .																	
WAVE NE 2, SWELL N 1, WIND NE 2, BARO 1003.5, AIR TEMP. DRY 17.6, WET . , CLOUD. TYPE CU, AMT 10, WEATHER C ,																	
0	17.36	32.690	6.73							0	17.36	32.690	6.73	23.68	422	422	.0000
10	16.60	32.940	6.10							10	16.60	32.940	6.10	24.05	387	387	.0405
20	15.96	33.900	5.58							20	15.96	33.900	5.58	24.93	303	303	.0751
30	15.82	34.120	6.85							30	15.82	34.120	6.85	25.13	284	285	.1045
50	15.91	34.340	5.23							50	15.91	34.340	5.23	25.28	270	271	.1602
75	16.01	34.200	6.12							75	16.01	34.200	6.12	25.15	282	284	.2297
85	16.00	34.050	5.63														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 204-01 , 33-35.8. N, 127-03.2. E, JUN.11.1980, 03:20 KST, DEPTH 128 , COLOR , TRANS. ,																	
WAVE NW 2, SUELL NW 1, WIND N 3, BARO 1003.5, AIR TEMP. DRY 17.6, WET , , CLOUD. TYPE , AMT , WEATHER C ,																	
0	17.75	32.990	5.93							0	17.75	32.990	5.93	23.92	4.09	4.09	.0000
10	17.58	32.050	6.70							10	17.58	32.050	6.70	23.90	4.01	4.01	.0405
20	16.96	32.670	6.53							20	16.96	32.670	6.53	24.52	3.42	3.42	.0778
30	16.74	33.020	6.12							30	16.74	33.020	6.12	24.08	3.84	3.85	.1141
50	16.86	34.460	5.84							50	16.86	34.460	5.84	25.15	2.82	2.83	.1811
75	15.40	34.520	5.04							75	15.40	34.520	5.04	25.53	2.46	2.48	.2475
100	14.87	34.590	5.12							100	14.87	34.590	5.12	25.70	2.30	2.32	.3076
125	14.81	34.560	4.72							125	14.81	34.560	4.72	25.69	2.31	2.34	.3660

3월(August)

KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, AUG.14.1980, 20:00 KST, DEPTH 38 , COLOR , TRANS.																	
WAVE SW 2, SUELL SW 2, WIND SW 3, BARO 1005. , AIR TEMP. DRY 23.4, WET , , CLOUD. TYPE , AMT , WEATHER D ,																	
0	23.00	32.480	5.10							0	23.00	32.480	5.10	22.05	578	578	.0000
10	22.83	32.500	5.18							10	22.83	32.500	5.18	22.11	572	572	.0576
20	22.84	32.570	4.89							20	22.84	32.570	4.89	22.16	567	568	.1146
30	22.82	32.630	4.80							30	22.82	32.630	4.80	22.21	562	563	.1712
KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, AUG.14.1980, 18:40 KST, DEPTH 28 , COLOR , TRANS.																	
WAVE SW 4, SUELL S 1, WIND SW 4, BARO 1004.8, AIR TEMP. DRY 23.6, WET , , CLOUD. TYPE HS, AMT 10, WEATHER D ,																	
0	22.83	32.590	5.00							0	23.83	32.590	5.00	21.89	593	593	.0000
10	22.79	32.570	5.10							10	23.79	32.570	5.10	21.89	593	593	.0594
20	22.79	32.560	4.92							20	23.79	32.560	4.92	21.88	594	595	.1188
25	22.67	32.580	4.80														

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA ,TAE PAK SAN , STATION 204-07 , 34-04.7, N, 127-26.8, E, AUG.14,1980, 17.20 KST, DEPTH 45 , COLOR , TRANS. . .

WAVE C 4, SWELL S 2, WIND SW 4, BARO 1004.8, AIR TEMP. DRY 23.8, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	27.57	32.610	4.71							0	23.57	32.610	4.71	21.98	584	584	.0000
10	27.45	32.610	5.31							10	23.45	32.610	5.31	22.02	501	591	.0523
20	22.27	32.790	4.80							20	22.27	32.790	4.80	22.49	536	536	.1142
30	19.43	33.100	4.70							30	19.43	33.100	4.70	23.48	441	442	.1832
40	18.99	33.210	4.70														

KOREA ,TAE PAK SAN , STATION 204-04 , 33-54.1, N, 127-15.2, E, AUG.12,1980, 16.30 KST, DEPTH 73 , COLOR , TRANS. . .

WAVE NE 4, SWELL NE 1, WIND NE 5, BARO 1006. , AIR TEMP. DRY 23.8, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	27.88	32.300	4.61							0	23.68	32.300	4.61	21.66	615	615	.0000
10	22.28	32.340	5.00							10	22.28	32.340	5.00	22.15	569	569	.0593
20	19.78	32.910	4.80							20	19.78	32.910	4.80	23.25	463	464	.1109
30	18.88	32.960	5.12							30	18.88	32.960	5.12	23.52	438	439	.1561
50	17.68	33.450	4.89							50	17.68	33.450	4.89	24.18	374	375	.2376
70	15.50	34.050	4.51														

KOREA ,TAE PAK SAN , STATION 204-05 , 33-45.5, N, 127-09.2, E, AUG.12,1980, 15.10 KST, DEPTH 89 , COLOR , TRANS. . .

WAVE NE 4, SWELL NE 1, WIND NE 5, BARO 1006. , AIR TEMP. DRY 24.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	24.69	32.500	4.90							0	24.69	32.500	4.90	21.57	624	624	.0000
10	24.70	32.490	4.92							10	24.70	32.490	4.92	21.56	625	625	.0625
20	24.60	32.490	4.70							20	24.60	32.490	4.70	21.59	622	622	.1249

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	22.46	32.660	4.78							30	22.46	32.660	4.78	22.74	551	551	.1836
50	20.35	32.240	4.71							50	20.35	32.240	4.71	23.35	454	455	.2843
75	15.20	32.740	5.10							75	15.20	32.740	5.10	24.08	299	300	.3729
85	16.90	*****	4.85														
KOREA TAE BAK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, AUG.11.1980, 10.00 KST, DEPTH 123 , COLOR 3, TRANS. 21.0,																	
WAVE NW 3, SWELL NW 1, WIND NW 3, BARO 1006. , AIR TEMP. DRY 26.2, WET . , CLOUD. TYPE AC, AMT 3, WEATHER FC,																	
0	24.41	32.630	4.70							0	24.41	32.630	4.70	21.75	607	606	.0000
10	23.84	32.700	4.65							10	23.84	32.700	4.65	21.97	585	585	.0596
20	23.40	32.760	4.75							20	23.40	32.760	4.75	22.15	569	569	.1174
30	22.61	32.870	5.10							30	22.61	32.870	5.10	22.45	539	540	.1729
50	20.90	33.270	5.20							50	20.90	33.270	5.20	23.23	466	467	.2737
75	18.43	33.700	4.71							75	18.43	33.700	4.71	24.19	373	375	.3791
100	16.03	33.910	4.60							100	16.03	33.910	4.60	24.02	304	306	.4645
120	15.40	33.950	4.61														

9 월 (September)

KOREA TAE BAK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, SEP.16.1980, 17.50 KST, DEPTH 38 , COLOR 3, TRANS. . ,																	
WAVE NW 3, SWELL W 1, WIND NW 3, BARO 1010.1, AIR TEMP. DRY 24.4, WET . , CLOUD. TYPE CS, AMT 9, WEATHER BC,																	
0	23.84	31.570	6.10							0	23.84	31.570	6.10	21.12	667	667	.0000
10	24.43	31.530	5.31							10	24.43	31.530	5.31	20.92	687	687	.0677
20	23.50	31.640	5.21							20	23.50	31.640	5.21	21.27	653	653	.1347
30	22.93	31.850	5.13							30	22.93	31.850	5.13	21.59	622	622	.1986

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D.DY
KOREA ,TAE PAK SAN , STATION 204-02 , 34-13.7. N, 127-25.4. E, SEP.16.1980, 16.40 KST, DEPTH 20 , COLOR 5, TRANSP. 8.0, WAVE NW 3, SWELL W 1, WIND NW 3, BARO 1010.5, AIR TEMP. DRY 25.4, WET . , CLOUD. TYPE CS, AMT 7, WEATHER BC,																	
0	23.69	31.740	5.51							0	23.69	31.740	5.51	21.17	662	662	0.000
10	23.40	31.740	5.71							10	23.40	31.740	5.71	21.38	643	643	.0646
20	23.15	31.730	5.51							20	23.15	31.730	5.51	21.44	637	637	.1286
25	23.06	31.790	5.60														
KOREA ,TAE PAK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, SEP.16.1980, 15.20 KST, DEPTH 50 , COLOR 3, TRANSP. 15.0, WAVE NW 3, SWELL W 1, WIND NW 3, BARO 1010.5, AIR TEMP. DRY 25.2, WET . , CLOUD. TYPE CS, AMT 7, WEATHER BC,																	
0	23.69	31.580	5.51							0	23.69	31.580	5.51	21.17	662	662	.0000
10	23.69	32.000	5.45							10	23.69	32.000	5.45	21.49	632	632	.0647
20	22.54	32.420	5.51							20	22.54	32.420	5.51	22.13	570	570	.1249
30	22.18	32.570	7.41							30	22.18	32.570	7.41	22.35	550	550	.1810
45	20.50	32.780	5.20														
KOREA ,TAE PAK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, SEP.13.1980, 13.10 KST, DEPTH 80 , COLOR 3, TRANSP. 19.0, WAVE W 2, SWELL NW 1, WIND W 2, BARO 1005.2, AIR TEMP. DRY 24.4, WET . , CLOUD. TYPE , AMT , WEATHER B ,																	
0	22.00	32.410	6.50							0	22.00	32.410	6.50	22.02	581	580	.0000
10	22.44	32.430	5.70							10	22.44	32.430	5.70	22.17	567	567	.0574
20	21.89	32.690	5.91							20	21.89	32.690	5.91	22.52	533	534	.1125
30	19.65	33.370	5.50							30	19.65	33.370	5.50	23.63	427	427	.1606
50	17.42	33.790	4.55							50	17.42	33.790	4.55	24.51	345	345	.2379
75	15.91	34.110	4.32							75	15.91	34.110	4.32	25.10	297	299	.3171

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, SEP. 13. 1980, 14.30 KST, DEPTH 90 , COLOR 3, TRANS. 19.0,
WAVE NW 2, SWELL W 1, WIND NW 2, BARO 1005. , AIR TEMP. DRY 23.8, WET . , CLOUD. TYPE CS, AMT 2, WEATHER B .

0	23.17	32.300	5.58							0	23.17	32.300	5.58	21.86	596	506	.0000
10	22.56	32.430	5.70							10	22.56	32.430	5.70	22.14	570	570	.0583
20	18.45	33.800	4.82							20	18.45	33.800	4.82	24.26	367	367	.1052
30	17.89	34.000	4.51							30	17.89	34.000	4.51	24.55	339	340	.1406
50	17.43	34.140	4.19							50	17.43	34.140	4.19	24.77	318	319	.2066
75	16.51	34.230	4.58							75	16.51	34.230	4.58	25.06	291	293	.2832
85	15.90	34.180	****														

KOREA , TAE BAK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, SEP. 13. 1980, 15.50 KST, DEPTH 128 , COLOR 3, TRANS. 14.0,
WAVE NW 2, SWELL W 1, WIND NW 3, BARO 1005.3, AIR TEMP. DRY 24.1, WET . , CLOUD. TYPE CS, AMT 2, WEATHER B .

0	23.94	32.580	5.31							0	23.94	32.580	5.31	21.85	597	597	.0000
10	23.93	32.570	6.11							10	23.93	32.570	6.11	21.85	597	597	.0598
20	20.85	32.970	5.45							20	20.85	32.970	5.45	23.01	486	486	.1140
30	17.60	33.860	4.71							30	17.60	33.860	4.71	24.52	342	343	.1555
50	17.50	32.240	4.20							50	17.50	32.240	4.20	23.30	458	459	.2358
75	17.28	34.170	4.12							75	17.28	34.170	4.12	24.83	313	315	.3327
100	16.72	34.210	4.01							100	16.72	34.210	4.01	24.99	297	300	.4096
125	15.05	34.190	4.20							125	15.95	34.190	4.20	25.16	282	285	.4828

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10월(October)

KOREA , TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, OCT. 9, 1980, 04.10 KST, DEPTH 30 , COLOR , TRANS. ,
 WAVE , SWELL , WIND , BARO 1015. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE , AMT , WEATHER ,

0	21.30	32.050	6.28							0	21.30	32.050	6.28	22.19	564	564	.0000
10	21.23	32.010	5.90							10	21.23	32.010	5.90	22.18	565	565	.0565
20	21.21	32.100	5.60							20	21.21	32.100	5.60	22.26	558	559	.1128
30	21.20	32.500	5.80							30	21.20	32.500	5.80	22.56	529	530	.1672

KOREA , TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, OCT. 9, 1980, 03.30 KST, DEPTH 28 , COLOR , TRANS. ,
 WAVE , SWELL , WIND , BARO 1016. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT , WEATHER ,

0	21.25	32.770	5.13							0	21.25	32.770	5.13	22.45	540	539	.0000
10	21.10	32.350	5.70							10	21.10	32.350	5.70	22.48	537	537	.0539
20	21.01	32.320	5.99							20	21.01	32.320	5.99	22.48	537	537	.1077
23	21.05	32.300	5.16														

KOREA , TAE BAEK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, OCT. 9, 1980, 05.00 KST, DEPTH 45 , COLOR , TRANS. ,
 WAVE , SWELL , WIND , BARO 1016.5, AIR TEMP. DRY 20.5, WET , CLOUD. TYPE , AMT , WEATHER ,

0	20.45	32.160	6.06							0	20.45	32.160	6.00	22.50	535	534	.0000
10	20.49	32.180	5.95							10	20.49	32.180	5.85	22.51	534	534	.0535
20	20.51	32.160	6.14							20	20.51	32.160	6.14	22.49	536	536	.1070
30	20.50	32.240	6.67							30	20.50	32.240	6.67	22.55	530	531	.1604
40	19.74	*****	5.41														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA TAE BAK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, OCT. 9, 1980, 06.35 VST, DEPTH 70 , COLOR , TRANS. .																	
WAVE	4, SWELL	2, WIND E	5, BARO 1017. , AIR TEMP. DRY 20.8, WET														
0	20.10	32.470	7.19							0	20.10	32.470	7.19	22.83	503	503	.0000
10	20.18	32.530	7.12							10	20.18	32.530	7.12	22.86	501	501	.0502
20	19.88	32.640	7.04							20	19.88	32.640	7.04	23.02	486	486	.0996
30	19.80	32.610	6.92							30	19.80	32.610	6.92	23.02	486	486	.1483
50	19.72	32.610	6.70							50	19.72	32.610	6.70	23.04	484	485	.2455
70	19.52	32.610	6.20														
KOREA TAE BAK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, OCT. 9, 1980, 08.00 VST, DEPTH 90 , COLOR , TRANS. .																	
WAVE	4, SWELL	2, WIND E	5, BARO 1017. , AIR TEMP. DRY 20.6, WET														
0	20.16	32.640	6.39							0	20.16	32.640	6.39	22.94	492	492	.0000
10	20.10	32.590	6.90							10	20.10	32.590	6.90	22.92	495	495	.0494
20	18.48	32.980	5.85							20	18.48	32.980	5.85	23.63	427	427	.0955
30	18.12	33.540	6.10							30	18.12	33.540	6.10	24.15	378	378	.1359
50	17.12	33.810	4.70							50	17.12	33.810	4.70	24.59	335	336	.2074
75	16.31	33.770	4.60							75	16.31	33.770	4.60	24.75	320	322	.2809
85	15.42	33.820	4.10														
KOREA TAE BAK SAN , STATION 204-04 , 33-55.8. N, 127-03.2. E, OCT. 9, 1980, 09.40 VST, DEPTH 130 , COLOR 5, TRANS. 10.0,																	
WAVE	4, SWELL	2, WIND E	5, BARO 1017. , AIR TEMP. DRY 20.8, WET														
0	22.40	33.170	6.20							0	22.40	33.170	6.20	22.74	512	512	.0000
10	22.11	33.090	6.19							10	22.11	33.090	6.19	22.76	510	510	.0511
20	22.05	33.100	6.00							20	22.05	33.100	6.00	22.78	508	508	.1021
30	22.45	33.690	6.80							30	22.45	33.690	6.80	23.12	476	476	.1514
50	22.64	33.530	6.01							50	22.64	33.530	6.01	22.94	493	494	.2485
75	19.43	33.710	6.80							75	18.43	33.710	6.80	24.20	373	375	.3572
100	17.10	34.000	5.72							100	17.10	34.060	5.72	24.79	317	319	.4441
125	15.82	34.410	4.61							125	15.82	34.410	4.61	25.35	263	266	.5173

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

12월 (December)

KOREA ,TAE BAK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, DEC.16,1980, 02.30 KST, DEPTH 40 , COLOR , TRANS. . .

WAVE W 5, SWELL W 1, WIND NW 5, BARO 1022.5, AIR TEMP. DRY 3.6, WET . , CLOUD. TYPE , AMT , WEATHER B ,

0	12.10	33.230	5.82							0	12.10	33.230	5.82	25.22	276	275	.0000
10	12.04	33.240	6.80							10	12.04	33.240	6.80	25.24	274	274	.0275
20	12.04	33.230	6.71							20	12.04	33.230	6.71	25.23	275	275	.0350
30	12.06	33.240	6.02							30	12.06	33.240	6.02	25.23	274	275	.0825

KOREA ,TAE BAK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, DEC.16,1980, 03.40 KST, DEPTH 35 , COLOR , TRANS. . .

WAVE W 5, SWELL W 1, WIND NW 5, BARO 1023. , AIR TEMP. DRY 3.6, WET . , CLOUD. TYPE , AMT , WEATHER BC ,

0	10.59	33.090	6.20							0	10.59	33.090	6.20	25.38	260	260	.0000
10	10.56	33.050	6.51							10	10.56	33.050	6.51	25.36	263	262	.0262
20	10.60	33.100	6.44							20	10.60	33.100	6.44	25.39	260	260	.0523
30	10.55	33.050	6.70							30	10.55	33.050	6.70	25.36	262	263	.0785

KOREA ,TAE BAK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, DEC.16,1980, 05.30 KST, DEPTH 45 , COLOR , TRANS. . .

WAVE W 5, SWELL W 2, WIND NW 6, BARO 1023. , AIR TEMP. DRY 3.0, WET . , CLOUD. TYPE , AMT , WEATHER BC ,

0	10.13	33.010	6.61							0	10.13	33.010	6.61	25.40	259	258	.0000
10	10.48	33.210	****							10	10.48	33.210	****	25.49	249	249	.0254
20	10.38	33.020	6.34							20	10.38	33.020	6.34	25.36	262	262	.0510
30	10.33	33.020	6.25							30	10.33	33.020	6.25	25.37	261	261	.0772
40	10.43	33.020	****														

KOREA ,TAE BAK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, DEC.17,1980, 09.10 KST, DEPTH 80 , COLOR 5, TRANS. 8.0.

WAVE NW 4, SWELL NW 1, WIND N 5, BARO 1023. , AIR TEMP. DRY 6.6, WET . , CLOUD. TYPE AC, AMT 4, WEATHER BC ,

0	14.13	33.460	5.34							0	14.13	33.460	5.34	24.99	297	297	.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	14.22	33.490	5.41							10	14.22	33.490	5.41	25.00	297	297	.0297
20	14.29	33.470	5.40							20	14.29	33.470	5.40	24.97	300	300	.0596
30	14.19	33.470	5.34							30	14.19	33.470	5.34	24.99	298	298	.0896
50	14.18	33.470	5.75							50	14.18	33.470	5.75	24.99	298	299	.1494
75	13.97	*****	5.58							75	13.97	*****	5.58	*****	***	***	*****
KOREA , TAE FAK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, DEC.17.1980, 10.20 KST, DEPTH 90 , COLOR 5, TRANS. 8.0,																	
WAVE NW 4, SWELL NW 2, WIND N 5, BARO 1023. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE AC, AMT 4, WEATHER FC,																	
0	15.00	33.420	5.61							0	15.00	33.420	5.61	24.78	318	318	.0000
10	15.00	33.440	5.81							10	15.00	33.440	5.81	24.79	316	316	.0317
20	15.05	33.460	5.70							20	15.05	33.460	5.70	24.80	316	316	.0634
30	15.30	33.540	5.88							30	15.30	33.540	5.88	24.80	315	316	.0951
50	15.49	33.610	5.22							50	15.49	33.610	5.22	24.81	314	315	.1523
75	15.90	33.720	5.91							75	15.90	33.720	5.91	24.81	315	317	.2374
PS	16.24	33.820	6.20														
KOREA , TAE FAK SAN , STATION 204-06 , 33-35.5. N, 127-03.2. E, DEC.17.1980, 11.30 KST, DEPTH 128 , COLOR 3, TRANS. 12.0,																	
WAVE NW 4, SWELL NW 2, WIND N 5, BARO 1023. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE AC, AMT 4, WEATHER FC,																	
0	18.00	34.330	5.31							0	18.00	34.330	5.31	24.78	318	317	.0000
10	18.09	34.330	5.22							10	18.09	34.330	5.22	24.76	320	320	.0319
20	18.26	34.350	*****							20	18.26	34.350	*****	24.73	322	322	.0641
30	18.32	*****	5.70							30	18.32	*****	5.70	*****	***	***	*****
50	18.32	34.790	5.62							50	18.32	34.790	5.62	24.75	321	322	*****
75	18.34	34.390	5.40							75	18.34	34.390	5.40	24.74	321	323	*****
100	18.31	34.400	5.30							100	18.31	34.400	5.30	24.76	320	322	*****
125	16.40	34.430	3.91							125	16.40	34.430	3.81	25.24	274	277	*****

203선 해양관측성적

Oceanographic Data. Line 203

OBSERVED																	INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									

2월(February)

KOREA , TAE PAK SAN , STATION 203-01 , 33-54.6. N, 126-31.4. E, FEB. 3.1980, 06.00 VST, DEPTH 57 , COLOR , TRANS. . .

WAVE , SWELL , WIND , AIR TEMP. DRY 3.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	12.35	34.010	5.43							0	12.35	34.010	5.43	25.77	223	223	.0000
10	12.40	34.380	5.42							10	12.40	34.380	5.42	26.05	197	107	.0210
20	12.40	34.380	5.37							20	12.40	34.380	5.37	26.05	197	197	.0407
30	12.33	34.370	5.01							30	12.33	34.370	5.01	26.06	196	196	.0604
50	12.24	34.380	5.35							50	12.24	34.380	5.35	26.08	194	195	.0997

KOREA , TAE PAK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, FEB. 3.1980, 07.40 VST, DEPTH 95 , COLOR , TRANS. . .

WAVE 4, SWELL 1, WIND NE 5, EARG 1019. , AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE CU, AMT 8, WEATHER C ,

0	13.69	*****	6.80							0	13.69	*****	6.80	*****	***	***	.0000
10	17.80	34.390	6.73							10	13.60	74.390	6.73	25.78	223	223	*****
20	13.76	34.740	6.40							20	13.76	34.340	6.40	25.75	225	226	*****
30	13.69	34.330	7.62							30	13.69	34.330	7.62	25.75	225	225	*****
50	13.69	34.260	6.11							50	13.69	34.260	6.11	25.70	220	221	*****
75	17.70	34.240	6.58							75	13.70	34.240	6.58	25.68	232	273	*****
90	17.70	34.250	5.32														

KOREA , TAE PAK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, FEB. 3.1980, 08.50 VST, DEPTH 135 , COLOR , TRANS. . .

WAVE 4, SWELL 1, WIND NE 5, EARG 1019. , AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE CU, AMT 8, WEATHER C ,

0	14.18	34.720	5.82							0	14.18	34.320	5.82	25.64	235	235	.0000
10	14.21	34.720	7.82							10	14.21	34.320	7.82	25.64	236	236	.0236
20	14.20	34.710	6.02							20	14.20	34.310	6.02	25.63	236	277	.0473

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	14.20	34.300	6.18							30	14.20	34.300	6.18	25.62	237	278	.0710
50	14.30	34.290	6.51							50	14.30	34.290	6.51	25.59	240	241	.1190
75	14.30	34.300	7.32							75	14.30	34.300	7.32	25.60	239	241	.1794
100	14.20	34.300	5.81							100	14.20	34.300	5.81	25.62	237	240	.2395
125	14.22	34.280	5.62							125	14.22	34.280	5.62	25.60	239	242	.2998

4월(April)

KOREA , TAE RACK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, APR. 18. 1980, 10.20 KST, DEPTH 57 , COLOR 4, TRANS. 10.0,
 WAVE 4, SWELL 1, WIND SE 5, EARP 1012. , AIR TEMP. DRY 15.1, WET , CLOUD. TYPE , AMT , WEATHER SC,
 0 12.26 34.150 ***** 0 12.26 34.150 ***** 25.90 211 211 .0000
 10 12.20 34.220 ***** 10 12.20 34.220 ***** 25.96 205 205 .0208
 20 12.10 34.190 ***** 20 12.10 34.190 ***** 25.96 205 205 .0414
 30 12.10 34.220 ***** 30 12.10 34.220 ***** 25.98 203 203 .0818
 50 12.05 34.280 ***** 50 12.05 34.280 ***** 26.04 198 198 .1021

KOREA , TAE RACK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, APR. 18. 1980, 09.00 KST, DEPTH 95 , COLOR 4, TRANS. 12.0,
 WAVE 4, SWELL 1, WIND SE 5, EARP 1012. , AIR TEMP. DRY 14.5, WET , CLOUD. TYPE CU, AMT 6, WEATHER SC,
 0 12.01 34.130 ***** 0 12.01 34.130 ***** 25.82 219 219 .0000
 10 12.50 34.010 ***** 10 12.50 34.010 ***** 25.74 226 226 .0223
 20 12.20 34.420 ***** 20 12.20 34.420 ***** 26.12 190 190 .0431
 30 12.10 34.450 ***** 30 12.10 34.450 ***** 26.15 187 188 .0621
 50 12.11 34.420 ***** 50 12.11 34.420 ***** 26.14 188 189 .0999
 75 12.10 34.420 ***** 75 12.10 34.420 ***** 26.14 188 190 .1474
 85 12.06 34.170 *****

OBSERVED										INTERPOLATED						CALCULATED	
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	U2	SIGMA-T	T	P	

KOREA , TAE FAK SAN , STATION 203-01 , 33-38.3. N, 126-21.3. E, APR. 18, 1980, 07.40 VST, DEPTH 135 , COLOR 4, TRANS. 13.0,
 WAVE 3, SWELL 1, WIND SE 4, BARO 1012. , AIR TEMP. DRY 11.5, WET , , CLOUD. TYPE , AMT , WEATHER C ,
 0 14.80 34.540 5.90
 10 14.71 34.540 5.90
 20 14.20 34.480 *****
 30 14.18 34.460 6.12
 50 13.99 34.440 6.11
 75 13.10 34.200 6.52
 100 12.29 34.290 6.21
 125 12.25 34.340 6.88

6월(June)

KOREA , TAE FAK SAN , STATION 203-01 , 33-56.6. N, 126-21.4. E, JUN. 8, 1980, 05.40 VST, DEPTH 53 , COLOR , TRANS. ,
 WAVE 3, SWELL 5 2, WIND SE 4, BARO 1005.5, AIR TEMP. DRY 10.8, WET , , CLOUD. TYPE ST, AMT 10, WEATHER F ,
 0 16.43 33.050 6.17
 10 15.40 33.420 6.30
 20 15.98 33.600 6.73
 30 13.08 33.650 6.02
 50 12.66 33.670 6.43

KOREA , TAE FAK SAN , STATION 203-01 , 33-47.5. N, 126-21.3. E, JUN. 9, 1980, 05.10 VST, DEPTH 53 , COLOR , TRANS. ,
 WAVE SE 3, SWELL S 2, WIND SE 4, BARO 1005.5, AIR TEMP. DRY 19.2, WET , , CLOUD. TYPE ST, AMT 10, WEATHER F ,
 0 17.29 32.660 6.02
 10 15.51 32.980 6.54

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	OP	P	TOTAL P	NO ³ N	NO ³ N	SI	PH	DEPTH	TEMP	SAL	OP	SIGMA-T	D-T	CSA	OUV								

20	14.41	37.380	6.54							20	14.41	37.380	6.54	24.87	309	309	.0727
30	11.50	37.510	6.62							30	11.50	37.510	6.62	25.55	245	245	.1005
50	11.19	37.470	6.91							50	11.19	37.470	6.91	25.57	242	242	.1494
75	11.31	37.800	5.73							75	11.31	37.800	5.73	25.81	220	221	.2075
90	11.33	37.820	6.02														

KOREA JAE RAK SAN , STATION 203-07 , 37-39.3. N, 126-21.3. E, JUN. 8.1980, 08.30 KST, DEPTH 135 , COLOR , TRANS. ,
 WAVE SE 3, SWELL S 2, WIND SE 4, BARO 1005.5, AIR TEMP. DRY 10.0, WET , CLOUD. TYPE ST, AMT 10, WEATHER F ,

0	18.40	33.140	5.71							0	18.40	33.140	5.71	23.77	413	413	.0000
10	18.19	33.410	5.52							10	18.19	33.410	5.52	24.03	389	389	.0402
20	17.73	37.570	5.92							20	17.73	33.570	5.92	24.26	367	367	.0780
30	16.81	34.040	6.07							30	16.81	34.040	6.07	24.84	311	312	.1170
50	15.93	34.310	6.24							50	15.93	34.310	6.24	25.25	272	274	.1707
75	15.78	*****	6.04							75	15.78	*****	4.07	*****	***	***	*****
100	15.19	34.320	4.72							100	15.19	34.320	4.72	25.43	256	258	*****
125	14.90	34.270	4.93							125	14.90	34.270	4.93	25.45	254	257	*****

8월(August)

KOREA JAE RAK SAN , STATION 203-01 , 37-51.6. N, 126-21.4. E, AUG. 9.1980, 10.40 KST, DEPTH 56 , COLOR 4, TRANS. 14.0,																	
WAVE 1, SWELL 1, WIND NE 1, BARO 1006. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE SC, AMT 10, WEATHER C ,																	
0	22.40	31.820	5.20							0	22.40	31.820	5.20	21.72	610	609	.0000
10	21.49	32.070	5.02							10	21.49	32.070	5.02	22.16	568	568	.0589
20	21.27	32.160	5.11							20	21.27	32.160	5.11	22.26	558	558	.1153
30	20.19	32.270	5.21							30	20.59	32.270	5.21	22.55	530	531	.1698
50	19.78	32.640	5.20							50	19.78	32.640	5.20	23.04	483	484	.2714

OBSERVED																	INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

KOREA , TAE BAK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, AUG. 9. 1980, 12.00 KST, DEPTH 95 , COLOR 3, TRANS. 20.0.
 WAVE SW 7, SWELL SE 1, WIND SW 4, EARO 1004.5, AIR TEMP. DRY 25.8, WET . , CLOUD. TYPE AC, AMT 7, WEATHEP BC,
 0 24.48 32.400 4.65 0 24.48 32.400 4.65 21.62 610 619 .0000
 10 24.25 32.500 4.70 10 24.25 32.500 4.70 21.70 611 611 .0616
 20 24.08 32.500 4.72 20 24.08 32.500 4.72 21.75 607 607 .1278
 30 17.75 32.090 4.61 30 17.75 32.090 4.61 23.82 409 410 .1774
 50 14.67 32.470 4.62 50 14.67 32.470 4.62 24.88 307 308 .2454
 75 14.40 32.840 5.00 75 14.40 32.840 5.00 25.23 275 277 .3101
 90 14.00 32.900 5.01

KOREA , TAE BAK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, AUG. 9. 1980, 13.20 KST, DEPTH 133 , COLOR 3, TRANS. 20.0.
 WAVE SW 3, SWELL SE 1, WIND SW 4, EARO 1004. , AIR TEMP. DRY 25.8, WET . , CLOUD. TYPE AC, AMT 4, WEATHER BC,
 0 25.00 32.530 4.68 0 25.00 32.530 4.68 21.50 631 670 .0060
 10 24.41 32.490 4.85 10 24.41 32.490 4.85 21.65 617 617 .0624
 20 24.45 32.490 4.76 20 24.45 32.490 4.76 21.63 618 618 .1242
 30 24.34 32.560 4.72 30 24.34 32.560 4.72 21.72 610 610 .1057
 50 18.82 32.350 5.91 50 18.82 32.350 5.91 23.83 408 409 .2877
 75 13.56 32.640 5.31 75 13.56 32.640 5.31 25.25 273 273 .3777
 100 13.60 34.000 4.70 100 13.60 34.000 4.70 25.52 247 270 .4300
 125 12.74 34.040 4.81 125 13.74 34.040 4.81 25.52 247 270 .5015

9월(September)

KOREA , TAE BAK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, SEP. 12. 1980, 12.10 KST, DEPTH 57 , COLOR 3, TRANS. . ,
 WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 999.5, AIR TEMP. DRY 22.1, WET . , CLOUD. TYPE CS, AMT 3, WEATHER BC,
 0 21.20 ***** 0 21.20 ***** ***** *** .0000
 10 21.20 ***** 10 21.20 ***** ***** *** .0000

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

20	20.50	*****	*****							20	20.50	*****	*****	*****	***	***	*****
30	17.20	*****	*****							30	17.20	*****	*****	*****	***	***	*****
50	15.00	*****	*****							50	15.00	*****	*****	*****	***	***	*****

KOREA , TAE BAK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, SEP.12.1980, 13.30 KST, DEPTH 90 , COLOR , TRANS. ,
WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 999.8, AIR TEMP. DRY 22.0, WET , CLOUD. TYPE CS, AMT 3, WEATHER BC,

0	21.80	*****	*****							0	21.80	*****	*****	*****	***	***	.0000
10	21.20	*****	*****							10	21.20	*****	*****	*****	***	***	*****
20	20.80	*****	*****							20	20.80	*****	*****	*****	***	***	*****
30	17.90	*****	*****							30	17.90	*****	*****	*****	***	***	*****
50	15.30	*****	*****							50	15.30	*****	*****	*****	***	***	*****
75	15.00	*****	*****							75	15.00	*****	*****	*****	***	***	*****

KOREA , TAE BAK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, SEP.12.1980, 14.50 KST, DEPTH 130 , COLOR , TRANS. ,
WAVE NW 4, SWELL NW 2, WIND NW 5, BARO 999.8, AIR TEMP. DRY 22.0, WET , CLOUD. TYPE CS, AMT 3, WEATHER EC,

0	27.00	*****	*****							0	22.00	*****	*****	*****	***	***	.0000
10	20.80	*****	*****							10	20.80	*****	*****	*****	***	***	*****
20	19.00	*****	*****							20	19.00	*****	*****	*****	***	***	*****
30	17.80	*****	*****							30	17.80	*****	*****	*****	***	***	*****
50	16.90	*****	*****							50	16.90	*****	*****	*****	***	***	*****
75	15.00	*****	*****							75	15.00	*****	*****	*****	***	***	*****
100	15.00	*****	*****							100	15.00	*****	*****	*****	***	***	*****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D.DY

10월(October)

KOREA ,TAE PAEK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, OCT.15.1980, 07.20 KST, DEPTH 57 , COLOR 6, TRANS. 9.0,
 WAVE 1, SWELL 1, WIND NE 1, BARO 1017. , AIR TEMP. DRY 17.1, WET , , CLOUD. TYPE AS, AMT 1, WEATHER B ,

0	20.69	33.760	5.20							0	20.69	33.360	5.20	23.35	454	453	.0000
10	20.66	33.370	5.41							10	20.66	33.370	5.41	23.37	452	452	.0453
20	20.69	33.350	5.60							20	20.69	33.350	5.60	23.34	454	455	.0907
30	20.72	33.360	5.21							30	20.72	33.360	5.21	23.34	454	455	.1362
50	19.16	33.340	4.90							50	19.16	33.340	4.90	23.73	417	418	.2237

KOREA ,TAE PAEK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, OCT.15.1980, 08.30 KST, DEPTH 95 , COLOR 5, TRANS. 11.0,
 WAVE 1, SWELL 1, WIND NE 1, BARO 1018. , AIR TEMP. DRY 20.7, WET , , CLOUD. TYPE , AMT , WEATHER B ,

0	18.90	32.700	5.31							0	18.90	32.700	5.31	23.31	457	457	.0000
10	18.68	32.640	5.10							10	18.68	32.640	5.10	23.32	456	456	.0457
20	17.20	32.880	5.04							20	17.20	32.880	5.04	23.86	405	405	.0888
30	16.30	33.070	5.00							30	16.30	33.070	5.00	24.22	371	372	.1277
50	15.21	33.320	5.07							50	15.21	33.320	5.07	24.65	330	331	.1980
75	14.35	33.410	4.61							75	14.35	33.410	4.61	24.91	305	307	.2779
90	17.42	*****	*****														

KOREA ,TAE PAEK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, OCT.15.1980, 10.30 KST, DEPTH 135 , COLOR 5, TRANS. 11.0,
 WAVE 1, SWELL 1, WIND NE 1, BARO 1019. , AIR TEMP. DRY 23.1, WET , , CLOUD. TYPE , AMT , WEATHER B ,

0	20.21	33.100	5.69							0	20.21	33.100	5.69	23.28	460	460	.0000
10	20.10	33.100	5.13							10	20.10	33.100	5.13	23.31	458	458	.0459

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SWA	D-DY
20	10.50	37.040	5.00							20	19.50	73.040	5.00	23.42	447	447	.0912
30	18.70	37.120	5.61							30	18.30	73.120	5.61	23.78	413	413	.1343
50	16.31	37.390	5.00							50	16.31	73.390	5.00	24.46	348	349	.2106
75	14.20	37.560	4.50							75	14.10	73.520	4.50	25.07	290	292	.2908
100	13.68	37.560	4.60							100	13.68	73.560	4.60	25.16	281	283	.3628
130	13.21	37.670	4.50							125	13.29	73.652	4.52	25.31	267	270	.4320

12월(December)

KOREA ,TAE BAEK SAN , STATION 203-01 , 33-56.6. N, 126-11.4. E, DEC.19,1980, 07.00 KST, DEPTH 57 , COLOR , TPANS. . .
 WAVE NW 5, SWELL NW 2, WIND NW 6, EAO 1017. , AIR TEMP. DRY 8.0, WET . , CLOUD. TYPE , AMT , WEATHER C ,
 0 15.90 37.290 6.32 0 15.90 73.290 6.32 24.48 346 346 .0000
 10 16.08 37.310 6.30 10 16.08 73.310 6.30 24.45 349 349 .0348
 20 16.09 37.310 5.91 20 16.09 73.310 5.91 24.45 349 349 .0697
 30 16.13 37.310 5.63 30 16.13 73.310 5.63 24.44 350 350 .1048
 50 16.15 37.310 5.60 50 16.15 73.310 5.60 24.44 350 351 .1750

KOREA ,TAE BAEK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, DEC.19,1980, 05.50 KST, DEPTH 95 , COLOR , TPANS. . .
 WAVE NW 4, SWELL NW 2, WIND NW 6, EAO 1017. , AIR TEMP. DRY 9.8, WET . , CLOUD. TYPE , AMT , WEATHER C ,
 0 15.91 37.550 6.50 0 15.91 72.550 6.50 23.91 401 400 .0000
 10 16.04 37.570 5.91 10 16.04 72.870 5.91 24.12 380 380 .0391
 20 16.08 37.160 6.13 20 16.08 73.160 6.13 24.34 360 360 .0761
 30 16.15 37.240 6.11 30 16.15 73.240 6.11 24.38 355 356 .1120
 50 16.31 37.290 5.61 50 16.31 73.290 5.61 24.38 355 356 .1833
 75 16.40 37.300 6.42 75 16.40 73.300 6.42 24.77 356 358 .2727
 90 16.58 ***** 6.21

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA, TAE PAK SAL, STATION 203-03, 32-33.7 N, 126-21.3 E, 11C.10.1980, 06.40 KET, DEPTH 130, COLOR, TRANS.																	
WAVE NW 4, SWELL NW 2, WIND NW 6, EASR, AIR TEMP. DRY, WET, CLOUD, TYPE, AMT, WEATHER C,																	
0	15.50	33.150	5.90							0	15.50	33.150	5.90	24.46	348	348	.0000
10	15.70	33.210	6.32							10	15.70	33.210	6.32	24.46	348	348	.0348
20	15.86	33.220	6.10							20	15.86	33.220	6.10	24.43	351	351	.0698
30	15.90	*****	6.60							30	15.90	*****	6.60	*****	***	***	*****
50	15.93	33.030	5.92							50	15.93	33.030	5.92	24.27	366	367	*****
75	15.87	33.130	6.31							75	15.87	33.130	6.31	24.36	357	359	*****
100	16.20	33.050	6.80							100	16.20	33.050	6.80	24.22	370	373	*****
125	16.44	32.050	6.41							125	16.44	32.950	6.41	24.09	383	386	*****

313선 해양 관측 성적 적
Oceanographic Data. Line 313

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY

2월(February)

KOREA , TAE PAK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, FEB. 9. 1980. 19.40 KST, DEPTH 92 , COLOR , TRANS. . .
WAVE , SWELL , WIND , BARO 1025. , AIR TEMP. DRY 4.3, WET . , CLOUD. TYPE . , AMT , WEATHER F ,
0 13.47 34.320 5.80 0 13.47 34.320 5.80 25.79 221 221 .0000
10 17.60 34.290 5.31 10 13.60 34.290 5.31 25.74 226 226 .0224
20 13.69 34.320 6.21 20 13.69 34.320 6.21 25.75 226 226 .0450
30 13.68 34.370 ***** 30 13.69 34.370 ***** 25.79 227 227 .0675
50 17.58 34.370 6.72 50 13.58 34.370 6.72 25.91 220 221 .1119
75 13.47 34.290 5.51 75 13.47 34.290 5.51 25.77 227 225 .1677
87 13.45 *****

KOREA , TAE PAK SAN , STATION 313-07 , 33-24.4. N, 125-48.0. E, FEB. 9. 1980. 21.00 KST, DEPTH 90 , COLOR , TRANS. . .
WAVE , SWELL , WIND , BARO 1025. , AIR TEMP. DRY 3.0, WET . , CLOUD. TYPE . , AMT , WEATHER F ,
0 17.61 34.280 5.32 0 13.61 34.280 5.32 25.73 227 227 .0000
10 13.64 34.290 5.75 10 13.64 34.290 5.75 25.73 227 227 .0227
20 13.65 34.280 5.42 20 13.65 34.280 5.42 25.72 228 228 .0455
30 13.69 34.290 5.82 30 13.69 34.290 5.82 25.72 228 228 .0684
50 13.72 34.290 5.71 50 13.72 34.290 5.71 25.72 228 229 .1142
75 13.65 34.290 5.20 75 13.65 34.290 5.28 25.73 227 229 .1716
87 13.61 34.290 4.60

KOREA , TAE PAK SAN , STATION 313-04 , 33-24.4. N, 127-40.0. E, FEB. 9. 1980. 24.10 KST, DEPTH 86 , COLOR , TRANS. . .
WAVE , SWELL , WIND , BARO 1025. , AIR TEMP. DRY 7.0, WET . , CLOUD. TYPE . , AMT , WEATHER F ,
0 13.61 34.200 5.21 0 13.61 34.300 5.21 25.71 229 229 .0000

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
10	17.82	34.260	5.30							10	13.82	34.280	6.20	25.69	271	271	.0231							
20	17.85	34.260	5.41							20	13.85	34.280	5.41	25.68	272	272	.0463							
30	17.85	34.280	5.35							30	13.85	34.280	5.35	25.68	272	272	.0605							
50	13.90	34.320	5.78							50	13.90	34.320	5.78	25.70	270	271	.1159							
75	13.65	34.290	6.12							75	13.65	34.290	6.12	25.73	227	229	.1734							
81	13.62	34.280	6.02																					
KOREA , TAE BAK SAN , STATION 313-05 , 33-24.4. N, 125-24.0. E, FEB. 9, 1980, 23.20 KST, DEPTH 84 , COLOR , TRANS. , WAVE , SWELL , WIND , BARO 1024.8, AIR TEMP. DRY 3.7, WET , CLOUD. TYPE , AMT , WEATHER ,																								
0	13.60	34.260	5.71							0	13.60	34.280	5.71	25.73	227	226	.0000							
10	13.80	34.300	5.82							10	13.80	34.300	5.82	25.71	229	229	.0228							
20	13.85	34.300	6.02							20	13.85	34.300	6.02	25.70	230	230	.0459							
30	13.91	34.300	5.61							30	13.91	34.300	5.61	25.68	231	232	.0690							
50	13.95	34.290	5.60							50	13.95	34.290	5.60	25.67	233	234	.1157							
75	13.77	34.300	5.51							75	13.77	34.300	5.51	25.71	220	230	.1739							
79	13.60	34.290	5.80																					
KOREA , TAE BAK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, FEB. 10, 1980, 00.30 KST, DEPTH 83 , COLOR , TRANS. , WAVE , SWELL , WIND , BARO 1025.8, AIR TEMP. DRY 3.8, WET , CLOUD. TYPE , AMT , WEATHER ,																								
0	13.76	34.380	6.81							0	13.76	34.380	6.81	25.78	223	222	.0000							
10	13.89	34.390	5.71							10	13.89	34.390	5.71	25.76	224	224	.0224							
20	13.90	34.360	5.51							20	13.89	34.380	5.51	25.75	225	225	.0449							
30	13.87	34.400	5.71							30	13.87	34.400	5.71	25.77	223	224	.0674							
50	13.86	34.390	5.61							50	13.86	34.390	5.61	25.76	224	225	.1124							
75	13.90	34.400	5.22							75	13.90	34.400	5.22	25.76	224	226	.1688							

OBSERVED																		INTERPOLATED						CALCULATED											
DEPTH		TEMP		SAL		O2		P		TOTAL P		NO2-N		NO3-N		SI		PH		DEPTH		TEMP		SAL		O2		SIGMA-T		D-T		SVA		D-DY	

KOREA , TAE FAKK SAN , STATION 313-07 , 32-24.4. N, 125-00.0. E, FEB.10.1980, 01.40 PST, DEPTH 70 , COLOR , TRANS. . .
 WAVE , SWELL , WIND , EARR 1024.5, AIR TEMP. DRY 4.4, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 17.61 34.400 5.38 0 13.61 34.400 5.38 25.82 218 218 .0000
 10 17.71 34.390 5.32 10 13.71 34.390 5.32 25.80 221 221 .0220
 20 17.74 34.350 ***** 20 13.74 34.350 ***** 25.76 224 225 .0443
 30 17.88 34.400 5.35 30 13.68 34.400 5.35 25.77 223 224 .0668
 50 17.88 34.390 5.20 50 13.68 34.390 5.29 25.76 224 225 .1118
 65 12.85 ***** 5.51

KOREA , TAE FAKK SAN , STATION 313-08 , 32-24.4. N, 124-48.0. E, FEB.10.1980, 02.50 PST, DEPTH 76 , COLOR , TRANS. . .
 WAVE , SWELL , WIND , EARR 1024.6, AIR TEMP. DRY 4.0, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 17.99 34.760 5.15 0 13.99 34.360 5.15 25.71 229 228 .0000
 10 14.14 34.760 5.21 10 14.14 34.360 5.21 25.68 232 232 .0230
 20 14.24 34.770 5.31 20 14.24 34.370 5.31 25.67 233 233 .0463
 30 14.18 34.380 5.20 30 14.18 34.380 5.20 25.69 231 231 .0696
 50 14.25 34.770 5.40 50 14.25 34.370 5.40 25.67 233 234 .1162
 70 14.13 34.760 5.15

KOREA , TAE FAKK SAN , STATION 313-09 , 32-24.4. N, 124-36.0. E, FEB.10.1980, 04.00 PST, DEPTH 70 , COLOR , TRANS. . .
 WAVE , SWELL , WIND , EARR 1024.5, AIR TEMP. DRY 4.5, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 17.71 34.460 5.12 0 13.71 34.460 5.12 25.85 216 215 .0000
 10 14.00 34.490 5.13 10 14.00 34.490 5.13 25.81 219 219 .0218
 20 14.07 34.460 5.41 20 14.07 34.460 5.41 25.77 223 223 .0439
 30 14.14 34.470 5.80 30 14.14 34.470 5.80 25.77 224 224 .0663
 50 14.12 34.410 5.51 50 14.12 34.410 5.51 25.73 228 229 .1117
 65 14.12 34.460 5.41

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	O-DY
KOREA	STATION 313-10, 33-24.4. N, 126-24.0. E, SEP. 10. 1980, 05.10 KST, DEPTH 90, COLOR 4, TRANS.																
WAVE	TAE BAK SAN, 1, WIND SW 5, EARD 1024.5, AIR TEMP. DRY 4.6, WET 4.6, TYPE 0, CLOUD. TYPE 0, WEATHER FC, TRANS.																
0	13.77	34.410	5.25							0	13.77	34.410	5.25	25.80	221	220	.0000
10	14.31	34.420	5.23							10	14.31	34.420	5.23	25.69	231	231	.0226
20	14.32	34.400	5.31							20	14.32	34.400	5.31	25.68	232	232	.0458
30	14.42	34.400	5.45							30	14.42	34.400	5.45	25.65	234	235	.0692
50	14.43	34.410	5.40							50	14.43	34.410	5.40	25.66	234	235	.1163
63	14.40	34.420	5.23														

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KOREA	STATION 313-02, 33-24.4. N, 126-00.0. E, APR. 16. 1980, 16.10 KST, DEPTH 90, COLOR 4, TRANS. 8.0.																
WAVE	TAE BAK SAN, 2, WIND SW 5, EARD 1012.5, AIR TEMP. DRY 11.0, WET 11.0, TYPE 0, CLOUD. TYPE AC, ANT 4, WEATHER FC, TRANS.																
0	13.10	34.200	*****							0	13.10	34.200	*****	25.77	223	223	.0000
10	13.15	34.200	*****							10	13.15	34.200	*****	25.76	224	224	.0224
20	13.30	34.240	*****							20	13.30	34.240	*****	25.76	224	224	.0448
30	13.50	34.300	*****							30	13.50	34.300	*****	25.77	223	224	.0673
50	13.80	34.410	*****							50	13.80	34.410	*****	25.79	221	222	.1120
75	13.95	34.460	*****							75	13.95	34.460	*****	25.80	220	222	.1676
85	13.92	34.450	*****														

KOREA	STATION 313-03, 33-24.4. N, 125-48.0. E, APR. 14. 1980, 14.50 KST, DEPTH 90, COLOR 4, TRANS. 9.0.																
WAVE	TAE BAK SAN, 1, WIND SW 5, EARD 1013.5, AIR TEMP. DRY 11.8, WET 11.8, TYPE 0, CLOUD. TYPE AC, ANT 5, WEATHER FC, TRANS.																
0	13.68	34.370	5.90							0	13.68	34.370	5.90	25.79	222	221	.0000
10	13.65	34.360	5.91							10	13.65	34.360	5.91	25.78	222	222	.0222
20	13.65	34.360	6.13							20	13.65	34.360	6.13	25.78	222	222	.0445

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

30 17.64 34.360 4.02
50 17.64 34.380 *****
75 17.69 34.390 5.91
87 17.75 34.390 5.81

KOREA ,TAE PAK SAN , STATION 313-04 , 33-26.4. N, 125-36.0. E, APP.16.1980, 13.30 W.T, DEPTH 88 , COLOR 4, TRANS. 9.0,

WAVE 4, SWELL 1, WIND SW 5, BARO 1013. , AIR TEMP. DRY 11.7, WET , , CLOUD. TYPE AC, AMT 4, WEATHER EC,

0 12.50 34.000 ***** 0 12.50 34.000 ***** 25.74 226 276 .0000
10 12.58 34.020 ***** 10 12.58 34.020 ***** 25.74 226 276 .0227
20 12.87 34.120 ***** 20 12.87 34.120 ***** 25.76 224 275 .0453
30 12.91 34.170 ***** 30 12.91 34.170 ***** 25.79 222 272 .0677
50 13.00 34.180 ***** 50 13.00 34.180 ***** 25.78 223 273 .1123
75 13.00 34.180 ***** 75 13.00 34.180 ***** 25.78 223 274 .1684
85 12.90 34.200 *****

KOREA ,TAE PAK SAN , STATION 313-05 , 33-26.4. N, 125-36.0. E, APP.16.1980, 13.30 W.T, DEPTH 34 , COLOR 4, TRANS. 10.0,

WAVE 7, SWELL 1, WIND SW 4, BARO 1013. , AIR TEMP. DRY 11.5, WET , , CLOUD. TYPE AC, AMT 3, WEATHER EC,

0 11.63 33.730 6.22 0 11.63 33.730 6.22 25.69 231 270 .0000
10 11.65 33.770 6.58 10 11.65 33.770 6.58 25.72 228 278 .0230
20 11.62 33.770 6.41 20 11.62 33.770 6.41 25.73 227 278 .0458
30 11.62 33.780 6.23 30 11.62 33.780 6.23 25.73 227 277 .0686
50 11.65 33.800 6.51 50 11.65 33.800 6.51 25.74 226 277 .1140
75 11.61 33.850 ***** 75 11.61 33.850 ***** 25.79 221 273 .1703

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2 N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE PAK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, APR.16.1980, 10.50 KST, DEPTH 83 , COLOR 4, TRANS. 11.0,																	
WAVE 7, SWELL 1, WIND SW 4, BARO 1013. , AIR TEMP. DRY 11.2, WET , CLOUD. TYPE AC, AMT 3, WEATHER FC,																	
0	11.56	33.690	*****							0	11.56	33.690	*****	25.67	232	232	.0000
10	11.54	33.710	*****							10	11.54	33.710	*****	25.69	230	230	.0232
20	11.30	33.680	*****							20	11.30	33.680	*****	25.71	229	229	.0462
30	11.45	33.690	*****							30	11.45	33.690	*****	25.69	230	231	.0692
50	11.54	33.710	*****							50	11.54	33.710	*****	25.69	230	231	.1155
75	11.87	33.970	*****							75	11.87	33.970	*****	25.83	217	219	.1719
KOREA ,TAE PAK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, APR.16.1980, 09.30 KST, DEPTH 72 , COLOR 4, TRANS. 12.0,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1013. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE CU, AMT 7, WEATHER FC,																	
0	11.31	33.800	6.22							0	11.31	33.800	6.22	25.81	220	220	.0000
10	11.30	33.800	6.32							10	11.30	33.800	6.32	25.81	220	220	.0220
20	11.30	33.800	6.57							20	11.30	33.800	6.57	25.81	220	220	.0440
30	11.38	33.820	6.41							30	11.38	33.820	6.41	25.81	220	220	.0661
50	11.38	33.840	6.22							50	11.38	33.840	6.22	25.82	210	219	.1100
67	11.38	33.820	6.35														
KOREA ,TAE PAK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, APR.16.1980, 08.10 KST, DEPTH 76 , COLOR 4, TRANS. 12.0,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1013. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	11.65	34.180	*****							0	11.65	34.180	*****	26.04	198	197	.0000
10	11.64	34.190	*****							10	11.64	34.190	*****	26.05	197	197	.0198
20	11.70	34.250	*****							20	11.70	34.250	*****	26.08	194	194	.0393
30	11.63	34.190	*****							30	11.63	34.190	*****	26.05	197	197	.0589
50	11.70	34.220	*****							50	11.70	34.220	*****	26.06	196	197	.0984
70	11.73	34.270	*****														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA ,TAE PAK SAN , STATION 313-00 , 73-24.4. N, 124-36.0. E , APR. 16. 1980. 06.50 PST, DEPTH 70 , COLOR , TRANS. , ,																		
WAVE 2, SWELL 1, WIND SW 3, EARO 1013. , AIF TEMP. DRY 9.7, WFT , , CLOUD. TYPE CU, AMT 7, WEATHER FC,																		
0	11.15	34.000	6.43							0	11.15	34.000	6.43	25.99	202	202	.0000	
10	11.15	34.030	6.50							10	11.15	34.030	6.50	26.01	200	200	.0202	
20	11.14	34.010	6.20							20	11.14	34.010	6.20	26.00	201	202	.0403	
30	11.10	34.010	6.30							30	11.10	34.010	6.30	26.01	201	201	.0605	
50	11.24	34.090	6.30							50	11.24	34.090	6.30	26.04	197	198	.1005	
65	11.40	34.100	6.22															
KOREA ,TAE PAK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E , APR. 16. 1980. 05.20 PST, DEPTH 65 , COLOR , TRANS. , ,																		
WAVE 2, SWELL 1, WIND SW 3, EARO 1012. , AIR TEMP. DRY 8.5, WFT , , CLOUD. TYPE , AMT , WEATHER FC,																		
0	10.55	33.900	****							0	10.55	33.900	****	26.02	200	199	.0000	
10	10.55	33.900	****							10	10.55	33.900	****	26.03	199	198	.0109	
20	10.55	33.930	****							20	10.55	33.930	****	26.04	197	197	.0397	
30	10.55	33.930	****							30	10.55	33.930	****	26.07	195	195	.0500	
50	10.80	34.170	****							50	10.80	34.170	****	26.19	184	185	.0981	
65	10.80	34.130	****															

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KOREA ,TAE PAK SAN , STATION 313-00 , 73-24.4. N, 124-36.0. E , APR. 16. 1980. 09.30 PST, DEPTH 90 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NW 4, EARO 1000. , AIR TEMP. DRY 9.7, WFT , , CLOUD. TYPE CU, AMT 7, WEATHER FC,																	
0	18.91	34.260	5.43							0	18.91	34.260	5.43	24.50	344	344	.0000
10	18.82	34.100	6.00							10	18.82	34.100	6.00	24.60	349	349	.0347
20	17.48	34.070	6.03							20	17.48	34.070	6.03	24.71	324	325	.0685
30	16.00	34.240	6.17							30	16.90	34.240	6.17	24.97	299	300	.0957

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KOREA , TAE PAK SAN , STATION 313-00 , 73-24.4. N, 124-36.0. E , APR. 16. 1980. 09.30 PST, DEPTH 90 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NW 4, EARO 1005. , AIR TEMP. DRY 9.7, WFT , , CLOUD. TYPE CU, AMT 7, WEATHER FC,																	
0	18.01	34.260	5.43							0	18.01	34.260	5.43	24.50	344	344	.0000
10	18.82	34.140	6.11							10	18.82	34.140	6.11	24.6	349	349	.0347
20	17.48	34.070	6.03							20	17.48	34.070	6.03	24.71	324	325	.0685
30	16.00	34.240	6.17							30	16.00	34.240	6.17	24.97	299	300	.0957

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2 N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	16.20	34.710	5.72							50	16.20	34.310	5.72	25.17	280	201	.1579
75	16.40	34.160	5.32							75	16.40	34.160	6.32	25.03	294	206	.2302
85	16.60	34.160	5.43														

KOREA TAE EAFK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, JUN. 9, 1980, 10.50 VST, DEPTH 92 , COLOR 11.5, TRANS. . .
 WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1009. , AIR TEMP. DRY 17.2, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 18.58 32.970 6.13 0 18.58 32.970 6.13 23.60 430 430 .0000
 10 18.51 32.970 5.84 10 18.51 32.970 5.84 23.62 428 428 .0430
 20 18.62 37.010 6.45 20 15.62 33.010 6.45 24.32 361 361 .0825
 30 16.38 33.010 6.33 30 16.38 32.910 6.33 24.84 311 312 .1162
 50 15.62 34.360 6.00 50 15.62 34.360 6.00 25.36 262 263 .1778
 75 15.50 34.730 5.37 75 15.50 34.330 5.37 25.36 262 264 .2763
 87 14.88 34.750 5.22

KOREA TAE EAFK SAN , STATION 313-04 , 33-24.4. N, 125-48.0. E, JUN. 9, 1980, 12.10 VST, DEPTH 98 , COLOR 11.5, TRANS. 13.0,
 WAVE NW 3, SWELL N 1, WIND NW 3, BARO 1009. , AIR TEMP. DRY 17.8, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 18.36 32.790 5.43 0 18.36 32.790 5.43 23.52 478 478 .0000
 10 16.84 37.040 5.72 10 16.84 33.040 5.72 24.07 385 385 .0412
 20 16.16 37.320 5.93 20 16.16 33.220 5.83 24.36 357 357 .0784
 30 13.04 37.480 5.84 30 13.94 33.480 5.84 25.05 292 293 .1109
 50 14.51 37.530 5.93 50 14.51 33.530 5.93 24.96 300 301 .1707
 75 14.10 37.860 5.43 75 14.10 33.860 5.43 25.31 267 269 .2417

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D-DRY
KOREA , TAE PAK SAN , STATION 313-06 , 33-24.4. N, 125-24.0. E, JUN. 9, 1960, 13.20 KST, DEPTH 84 , COLOR 5, TRANS. 13.0, WAVE NW 2, SWELL N 1, WIND NW 3, BARO 1009.5, AIR TEMP. DRY 18.9, WET																	
0	18.34	32.800	6.04							0	18.34	32.800	6.04	23.53	437	437	.0000
10	17.90	32.790	5.77							10	17.90	32.790	5.77	23.63	427	427	.0472
20	15.92	33.040	6.07							20	15.92	33.040	6.07	24.28	365	365	.0829
30	14.74	33.910	5.62							30	14.74	33.910	5.62	25.21	277	277	.1151
50	14.46	34.250	5.12							50	14.46	34.250	5.12	25.53	246	247	.1676
75	14.45	34.250	5.02							75	14.45	34.250	5.02	25.53	246	248	.2296
KOREA , TAE PAK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, JUN. 9, 1960, 14.40 KST, DEPTH 83 , COLOR 5, TRANS. 15.0, WAVE N 2, SWELL NE 1, WIND N 2, BARO 1009. , AIR TEMP. DRY 21.2, WET																	
0	18.85	32.450	5.47							0	18.85	32.450	5.47	23.13	474	474	.0000
10	17.46	32.620	5.68							10	17.46	32.620	5.68	23.60	430	430	.0452
20	15.39	33.060	6.16							20	15.39	33.060	6.16	24.41	352	353	.0844
30	14.26	33.870	5.52							30	14.26	33.870	5.52	25.28	270	270	.1156
50	14.46	34.240	5.05							50	14.46	34.240	5.05	25.52	247	248	.1675
75	14.55	34.270	5.04							75	14.55	34.270	5.04	25.53	246	248	.2296
KOREA , TAE PAK SAN , STATION 312-07 , 33-24.4. N, 125-00.0. E, JUN. 9, 1960, 15.50 KST, DEPTH 72 , COLOR 5, TRANS. 14.0, WAVE N 2, SWELL NE 1, WIND N 2, BARO 1008.5, AIR TEMP. DRY 18.0, WET																	
0	18.40	32.350	5.64							0	18.40	32.350	5.64	23.17	471	471	.0000
10	17.78	32.440	5.63							10	17.78	32.440	5.63	23.39	450	450	.0461
20	15.69	32.540	6.23							20	15.69	32.540	6.23	23.95	397	397	.0845
30	14.47	33.030	4.74							30	13.47	32.920	6.74	24.72	323	324	.1266
50	14.00	33.990	5.33							50	14.00	33.990	5.33	25.43	256	257	.1827
75	14.40	33.070	5.65														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE BAK SAN , STATION 313-00 , 33-24.4. N, 124-48.0. E, JUN. 9, 1980, 17.10 KST, DEPTH 76 , COLOR 5, TRANS. 14.0, WAVE H 2, SWELL H 1, WIND H 2, BARO 1007.5 , AIR TEMP. DRY 18.2, WFT , , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	16.51	32.160	6.32							0	18.51	32.160	6.32	23.00	487	487	.0000
10	17.61	32.210	6.42							10	17.61	32.210	6.42	23.25	463	463	.0475
20	15.04	32.860	6.43							20	15.94	32.860	6.43	24.14	379	379	.0897
30	15.54	32.900	6.07							30	15.54	32.900	6.07	24.26	367	368	.1271
50	13.57	33.890	5.56							50	13.57	33.890	5.58	25.44	255	256	.1895
71	17.52	33.880	5.38														
KOREA , TAE BAK SAN , STATION 313-00 , 33-24.4. N, 124-36.0. E, JUN. 9, 1980, 16.20 KST, DEPTH 70 , COLOR , TRANS. , WAVE H 2, SWELL H 1, WIND H 2, BARO 1007.5, AIR TEMP. DRY 17.9, WFT , , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	16.10	32.160	6.70							0	18.10	32.160	6.70	23.10	478	478	.0000
10	16.95	32.150	6.13							10	16.95	32.150	6.13	23.36	452	452	.0465
20	13.20	32.360	6.02							20	13.20	32.380	6.02	24.35	359	359	.0872
30	12.61	33.500	5.54							30	12.61	33.500	5.54	25.33	265	266	.1194
50	12.48	37.500	5.44							50	12.48	33.500	5.44	25.35	263	264	.1715
65	12.51	37.540	5.93														
KOREA , TAE BAK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, JUN. 9, 1980, 19.30 KST, DEPTH 68 , COLOR , TRANS. , WAVE H 2, SWELL H 1, WIND H 2, BARO 1008. , AIR TEMP. DRY 18.0, WFT , , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	15.31	32.260	5.93							0	18.31	32.260	5.93	23.12	475	475	.0000
10	17.58	32.240	6.45							10	17.58	32.240	6.45	23.28	460	460	.0468
20	17.41	*****	5.82							20	12.41	*****	6.82	****	***	***	*****
30	17.20	32.200	6.87							30	12.29	32.200	6.87	24.38	355	355	*****
50	17.14	32.020	5.40							50	12.14	32.020	5.68	24.97	200	200	*****
60	10.92	32.030	5.53														

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY								

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KOREA , TAE PAK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, AUG. 9. 1980, 16.10 VST, DEPTH 90 , COLOR 3, TRANS. 20.0,
 WAVE 2, SWELL 1, WIND W 3, BARO 1003.5, AIR TEMP. DRY 25.7, WFT . , FLOOD. TYPE CI, AMT 3, WEATHER FC,
 0 25.18 32.050 4.71 0 25.18 32.050 4.71 21.09 671 670 .0000
 10 24.60 32.410 4.71 10 24.60 32.410 4.71 21.53 628 628 .0650
 20 24.28 32.580 4.81 20 24.28 32.580 4.81 21.75 607 607 .1267
 30 23.96 32.620 4.80 30 23.96 32.620 4.80 21.96 595 595 .1849
 50 14.45 33.060 4.81 50 14.45 33.060 4.81 24.62 333 334 .2799
 75 15.02 33.060 4.34 75 15.02 33.060 4.34 24.49 345 346 .3651
 85 15.03 33.060 4.21

KOREA , TAE PAK SAN , STATION 313-03 , 33-24.4. N, 126-48.0. E, AUG. 9. 1980, 17.30 VST, DEPTH 91 , COLOR 3, TRANS. 20.0,
 WAVE 2, SWELL 1, WIND W 4, BARO 1003. , AIR TEMP. DRY 26.4, WFT . , FLOOD. TYPE CI, AMT 3, WEATHER FC,
 0 24.84 31.520 4.83 0 24.84 31.520 4.83 20.79 699 609 .0000
 10 24.38 31.590 4.81 10 24.38 31.590 4.81 20.98 681 671 .0600
 20 22.22 31.660 5.51 20 22.22 31.660 5.51 21.65 617 617 .1340
 30 16.38 33.010 4.35 30 16.38 33.010 4.35 24.15 377 378 .1837
 50 13.84 33.840 5.76 50 13.84 33.840 5.76 25.34 264 265 .2481
 75 14.00 34.140 ***** 75 14.00 34.140 ***** 25.54 245 247 .3121
 85 14.05 34.210 4.62

KOREA , TAE PAK SAN , STATION 313-04 , 33-24.4. N, 126-36.0. E, AUG. 9. 1980, 18.40 VST, DEPTH 87 , COLOR 4, TRANS. 18.0,
 WAVE 2, SWELL 1, WIND W 4, BARO 1003. , AIR TEMP. DRY 24.6, WFT . , FLOOD. TYPE CI, AMT 3, WEATHER FC,
 0 24.57 31.780 4.51 0 24.57 31.780 4.51 21.06 672 672 .0000
 10 24.18 31.770 4.81 10 24.18 31.770 4.81 21.17 662 662 .0658

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	23.28	32.060	5.20							20	23.26	32.060	5.20	21.65	616	617	.1308
30	14.48	33.090	5.41							30	14.46	32.000	5.41	24.63	331	332	.1732
50	13.97	34.070	4.81							50	13.97	34.070	4.81	25.60	249	250	.2356
75	14.10	34.210	5.27							75	14.10	34.210	5.27	25.58	242	243	.2984
85	14.74	34.130	4.72														

KOREA , TAE EAK SAN , STATION 313-05 , 33-24.4. N, 125-24.0. E, AUG. 9, 1980, 20.00 KST, DEPTH 82 , COLOR , TRANS. , .

WAVE 3, SWELL 1, WIND W 4, BARO 1003. , AIR TEMP. DRY 23.8, WET , , CLOUD. TYPE , AMT , WEATHER EC, .

0	24.16	32.270	4.82							0	24.16	32.270	4.82	21.55	626	625	.0000
10	23.98	32.490	4.81							10	23.98	32.490	4.81	21.77	605	605	.0415
20	19.10	32.470	5.71							20	19.10	32.470	5.71	22.09	479	479	.1158
30	12.39	32.870	5.70							30	12.39	32.870	5.70	24.88	308	308	.1552
50	11.80	33.340	5.00							50	11.80	33.340	5.00	25.36	262	263	.2124
75	13.36	33.920	4.75							75	13.36	33.920	4.75	25.50	249	250	.2767

KOREA , TAE EAK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, AUG. 9, 1980, 21.10 KST, DEPTH 81 , COLOR , TRANS. , .

WAVE 3, SWELL 1, WIND NW 4, BARO 1003. , AIR TEMP. DRY 23.7, WET , , CLOUD. TYPE , AMT , WEATHER EC, .

0	24.48	31.890	4.80							0	24.48	31.890	4.80	21.17	662	662	.0000
10	23.80	32.490	5.00							10	23.80	32.490	5.00	21.83	600	600	.0631
20	20.52	32.410	5.82							20	20.52	32.410	5.82	22.66	518	518	.1191
30	15.23	32.920	5.32							30	15.23	32.920	5.32	24.24	350	350	.1630
50	13.70	34.150	5.42							50	13.70	34.150	5.42	25.61	238	239	.2230
75	13.53	33.090	4.80							75	13.53	33.090	4.80	25.52	247	248	.2841

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	MO2-N	MO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE FAK SAN , STATION 313-07 , 33-24.4. N, 124-48.0. E, AUG. 9,1960, 24.30 KST, DEPTH 70 , COLOR , TRANS. , ,																	
WAVE 3, SWELL 1, WIND NW 4, BARO 1003. , AIR TEMP. DRY 23.5, WET , , CLOUD. TYPE , AMT , WEATHER BC,																	
0	24.35	31.730	4.91							0	24.35	31.730	4.91	21.09	670	670	.0000
10	24.30	31.890	4.82							10	24.30	31.890	4.82	21.23	657	657	.0664
20	24.08	32.390	4.90							20	24.08	32.390	4.90	21.67	615	615	.1300
30	16.90	32.670	4.62							30	16.99	32.670	4.62	23.75	415	416	.1816
50	14.38	32.920	4.20							50	14.38	32.920	4.20	24.52	342	343	.2576
65	13.97	31.850	4.80														
KOREA ,TAE FAK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, AUG. 9,1960, 23.40 KST, DEPTH 75 , COLOR , TRANS. , ,																	
WAVE 3, SWELL 1, WIND NW 4, BARO 1003. , AIR TEMP. DRY 23.6, WET , , CLOUD. TYPE , AMT , WEATHER BC,																	
0	24.41	31.580	5.48							0	24.41	31.580	5.48	20.96	682	682	.0000
10	24.39	31.660	4.81							10	24.39	31.660	4.81	21.03	676	676	.0680
20	15.59	32.580	5.40							20	15.59	32.580	5.40	24.00	392	392	.1214
30	11.78	33.240	5.26							30	11.78	33.240	5.26	25.29	269	270	.1545
50	12.45	33.570	4.91							50	12.45	33.570	4.91	25.41	257	258	.2074
70	12.59	32.600	4.93														
KOREA ,TAE FAK SAN , STATION 313-09 , 33-24.4. N, 124-36.0. E, AUG.10,1960, 01.00 KST, DEPTH 70 , COLOR , TRANS. , ,																	
WAVE 3, SWELL 1, WIND NW 4, BARO 1004. , AIR TEMP. DRY 23.4, WET , , CLOUD. TYPE , AMT , WEATHER BC,																	
0	24.25	31.460	4.85							0	24.25	31.460	4.85	20.92	687	686	.0000
10	27.70	32.090	5.20							10	23.70	32.090	5.20	21.55	626	626	.0656
20	17.99	32.720	5.81							20	13.59	32.720	5.81	24.45	349	349	.1144
30	12.58	33.510	5.15							30	12.58	33.510	5.15	25.34	264	264	.1451
50	12.55	33.550	4.91							50	12.55	33.550	4.91	25.38	260	261	.1978
65	12.60	33.600	4.90														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, AUG.10.1980, 00.10 KST, DEPTH 70 , COLOR , TRANS. , ,																	
WAVE 3, SWELL 1, WIND NW 4, EPRC 1034. , AIP TEMP. DRY 27.4, WFT , , FLOUD. TVFF , AMT , WEATHER FC, ,																	
0	24.23	30.090	4.82							0	24.27	30.000	4.82	20.57	720	720	.0000
10	23.96	30.020	4.92							10	23.96	30.020	4.92	19.92	707	703	.0752
20	17.34	30.010	4.78							20	13.34	30.010	4.78	22.49	536	576	.1411
30	13.21	31.030	4.71							30	13.21	31.030	4.71	27.30	458	458	.1909
50	12.15	33.770	4.83							50	13.15	33.770	4.83	25.43	256	256	.2625
65	12.18	33.770	4.25														

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KOREA ,TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, OCT.15.1980, 21.10 KST, DEPTH 90 , COLOR , TRANS. , ,																		
WAVE , SWELL , WIND , BARO 1016. , AIP TEMP. DRY 18.6, WFT , , FLOUD. TVFF , AMT , WEATHER , ,																		
0	21.42	37.270	5.00							0	21.42	37.270	5.00	23.09	479	479	.0000	
10	20.40	33.310	4.91							10	20.40	33.310	4.91	23.39	450	450	.0465	
20	20.22	37.390	4.71							20	20.22	37.390	4.71	27.50	440	440	.0910	
30	20.05	37.470	4.62							30	20.05	37.470	4.62	27.60	430	430	.1346	
50	17.72	37.500	4.90							50	17.72	37.500	4.90	24.21	371	373	.2149	
75	17.30	37.710	4.00							75	17.30	37.710	4.00	24.47	347	348	.2052	
85	16.50	37.710	4.22															

KOREA ,TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, OCT.15.1980, 22.45 KST, DEPTH 90 , COLOR , TRANS. , ,																	
WAVE , SWELL , WIND , BARO 1016. , AIP TEMP. DRY 18.7, WFT , , FLOUD. TVFF , AMT , WEATHER , ,																	
0	20.41	37.060	4.31							0	20.11	32.060	4.71	27.52	523	523	.0000
10	20.10	32.090	5.60							10	20.10	32.090	5.60	22.56	571	571	.0577

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	19.98	32.300	5.70							20	19.99	32.300	5.70	22.73	513	513	.1055
30	19.99	32.060	4.69							30	19.99	32.060	4.69	27.11	458	458	.1541
50	18.82	32.630	6.00							50	18.82	32.630	6.00	24.04	388	388	.2390
75	18.26	32.860	4.61							75	18.26	32.860	4.61	24.77	356	356	.3325
85	18.90	32.740	4.89														

YORBA LINDA PARK SAN , STATION 313-04 , 32-24.6. N, 125-26.0. E, OCT.16,1980, 00.10 KST, DEPTH 85 , COLOR , TRANS. , WAVE , SWELL , WIND , CLOUD, TYPE , AMT , WEATHER ,																	
0	20.33	32.300	6.20							0	20.33	32.300	6.20	22.64	521	521	.0000
10	20.29	32.400	5.48							10	20.29	32.400	5.48	22.73	512	513	.0518
20	19.65	32.920	*****							20	19.65	32.980	*****	27.74	455	455	.1002
30	16.67	32.010	4.89							30	16.62	32.010	4.89	24.10	382	383	.1422
50	14.34	32.930	4.50							50	14.34	32.930	4.50	25.71	267	268	.2074
75	14.08	32.950	4.79							75	14.08	32.950	4.79	25.38	260	262	.2738
90	14.00	32.910	4.15														

YORBA LINDA PARK SAN , STATION 313-04 , 32-24.6. N, 125-24.0. E, OCT.16,1980, 01.20 KST, DEPTH 80 , COLOR , TRANS. , WAVE , SWELL , WIND , CLOUD, TYPE , AMT , WEATHER ,																	
0	20.06	32.130	6.05							0	20.06	32.130	6.05	22.58	527	527	.0000
10	20.04	32.140	5.50							10	20.04	32.140	5.50	22.60	526	526	.0527
20	20.10	32.140	5.72							20	20.10	32.140	5.72	22.58	527	528	.1054
30	19.95	32.220	*****							30	19.95	32.220	*****	22.68	510	518	.1577
50	15.41	32.920	*****							50	15.41	32.820	*****	24.09	297	298	.2395
75	14.31	32.050	4.91							75	14.31	32.050	4.91	25.41	258	259	.3092

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	O-T	SVA	D-OY	
KOREA , TAE PAK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, OCT.16,1980, 03.00 KST, DEPTH 80 , COLOR , TRANS. ,																		
WAVE , SWELL , WIND , BARO 1015. , AIP TEMP. DRY 17.7, WET , CLOUD. TYPE , AMT , WEATHER ,																		
0	19.97	31.540	6.00							0	19.97	31.540	6.00	22.41	543	543	.0000	
10	19.05	31.730	6.01							10	19.05	31.730	6.01	22.54	531	531	.0538	
20	19.06	32.050	6.08							20	19.06	32.050	6.08	22.78	508	509	.1058	
30	19.15	32.360	6.10							30	19.15	32.360	6.10	22.99	488	489	.1558	
50	14.15	37.250	5.61							50	14.15	37.250	5.61	24.83	313	314	.2361	
75	14.12	34.060	4.22							75	14.12	34.060	4.22	25.46	253	255	.3074	
KOREA , TAE PAK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, OCT.16,1980, 04.20 KST, DEPTH 74 , COLOR , TRANS. ,																		
WAVE , SWELL , WIND , BARO 1017. , AIP TEMP. DRY 17.7, WET , CLOUD. TYPE , AMT , WEATHER ,																		
0	19.25	32.430	5.29							0	19.25	32.430	5.29	23.02	485	485	.0000	
10	19.30	32.570	5.99							10	19.30	32.570	5.99	23.11	476	476	.0481	
20	19.29	32.960	5.50							20	19.29	32.960	5.50	23.66	424	424	.0932	
30	15.10	33.570	4.21							30	15.10	33.570	4.21	24.87	309	309	.1209	
50	13.00	37.720	5.30							50	13.00	37.720	5.30	25.24	274	275	.1895	
70	17.00	37.860	4.41															
KOREA , TAE PAK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, OCT.16,1980, 05.50 KST, DEPTH 74 , COLOR , TRANS. ,																		
WAVE , SWELL , WIND , BARO 1014. , AIP TEMP. DRY 17.7, WET , CLOUD. TYPE , AMT , WEATHER ,																		
0	19.63	31.470	*****							0	19.63	31.470	*****	22.19	564	564	.0000	
10	19.62	31.460	*****							10	19.62	31.480	*****	22.20	563	563	.0564	
20	19.40	31.810	*****							20	19.40	31.810	*****	22.51	534	534	.1114	
30	14.26	37.470	*****							30	14.26	33.470	*****	24.97	299	300	.1531	
50	14.80	33.850	*****							50	14.80	33.850	*****	25.15	282	283	.2115	
70	17.75	37.770	*****															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 313-00 , 33-24.4. N, 124-26.0. E, OCT.16.1980, 07.10 VST, DEPTH 65 , COLOR 3, TRANS. 15.0.																	
WAVE 1, SWELL , WIND NW 1, BARO 1014. , AIP TEMP. DRY 10.0, WET . , CLOUD. TYPE CU, AM- 8, WEATHER C ,																	
0	19.65	31.670	5.21							0	19.65	31.670	5.21	22.34	550	550	.0000
10	19.75	31.660	5.28							10	19.75	31.660	5.25	22.31	554	563	.0552
20	19.60	31.670	5.30							20	19.60	31.670	5.30	22.35	549	549	.1104
30	13.40	32.820	5.47							30	13.40	32.820	5.47	24.65	370	330	.1545
50	13.61	33.840	4.38							50	13.61	33.840	4.38	25.39	259	260	.2136
60	17.65	37.770	4.13														

KOREA ,TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, OCT.16.1980, 08.30 KST, DEPTH 80 , COLOR 3, TRANS. 14.0.																		
WAVE 1, SWELL , WIND N 1, BARO 1014. , AIR TEMP. DRY 13.0, WET . , CLOUD. TYPE CU, AMT 8, WEATHER C ,																		
0	19.50	31.570	5.22							0	19.50	31.570	5.22	22.30	554	554	.0000	
10	19.69	31.550	5.27							10	19.69	31.550	5.27	22.24	560	560	.0557	
20	19.60	31.650	5.21							20	19.60	31.650	5.21	22.34	551	551	.1113	
30	13.85	32.220	5.48							30	13.85	32.220	5.48	24.09	363	363	.1581	
50	12.00	32.210	5.99							50	12.00	32.210	5.99	24.45	349	350	.2315	
75	12.45	33.390	4.54							75	12.45	33.390	4.54	25.27	270	272	.3093	

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KOREA ,TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, DEC.19.1980, 02.20 VST, DEPTH 90 , COLOR , TRANS. .																		
WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 1017. , AIP TEMP. DRY 9.0, WET . , CLOUD. TYPE , AMT , WEATHER C ,																		
0	15.34	37.510	6.31							0	15.34	33.510	6.31	24.77	318	318	.0000	
10	15.50	37.560	6.30							10	15.50	33.560	6.30	24.77	318	319	.0319	
20	15.48	37.610	5.71							20	15.48	33.610	5.71	24.82	314	314	.0635	

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02 N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	0.1	0.1

30	15.90	33.550	6.01							30	15.90	33.550	6.01	24.68	327	328	.0957
50	16.82	*****	6.01							50	16.82	*****	6.01	*****	***	***	*****
75	16.88	33.710	5.82							75	16.88	33.710	5.82	24.7	337	379	*****
85	17.12	33.640	6.35														

KOREA , TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, DEC.19.1980, 01.10 KST, DEPTH 92 , COLOR , TRANS. ,

WAVE NW 4, SWELL NW 2, WIND NW 5, BARO 1018. , AIR TEMP. DRY 9.7, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	17.00	*****	5.51							0	17.00	*****	5.51	*****	***	***	.0000
10	17.21	33.840	6.10							10	17.21	33.840	6.10	24.59	335	375	*****
20	17.32	33.840	5.81							20	17.32	33.840	5.81	24.57	330	378	*****
30	17.37	33.840	6.10							30	17.37	33.840	6.10	24.56	339	379	*****
50	17.38	33.890	6.12							50	17.38	33.890	6.12	24.59	335	336	*****
75	17.34	33.870	6.02							75	17.34	33.870	6.02	24.59	336	378	*****
87	17.38	33.790	6.01														

KOREA , TAE BAEK SAN , STATION 313-04 , 33-24.4. N, 125-36.0. E, DEC.19.1980, 00.00 KST, DEPTH 88 , COLOR , TRANS. ,

WAVE NW 4, SWELL NW 2, WIND NW 5, BARO 1018.5, AIR TEMP. DRY 9.4, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	16.17	33.420	6.61							0	16.17	33.420	6.61	24.52	343	342	.0000
10	16.46	33.400	6.02							10	16.46	33.400	6.02	24.43	350	350	.0347
20	16.53	33.470	5.52							20	16.53	33.470	5.52	24.47	347	347	.0696
30	17.74	33.670	6.34							30	16.74	33.670	6.34	24.58	337	377	.1079
50	16.90	33.730	5.93							50	16.90	33.730	5.93	24.58	336	337	.1715
75	16.84	33.720	6.21							75	16.84	33.720	6.21	24.59	335	377	.2559

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D.DY
KOREA ,TAE RAK SAN , STATION 313-06 , 33-24.4. N, 125-24.0. E, DEC.18,1980, 20.30 KST, DEPTH 84 , COLOR , TRANS.																	
WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 1018.8, AIP TEMP. DRY 9.4, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	16.58	33.330	6.21							0	16.58	33.330	6.21	24.35	358	358	.0000
10	16.60	33.330	5.58							10	16.60	33.330	5.58	24.35	359	359	.0359
20	16.62	33.330	6.30							20	16.62	33.330	6.30	24.34	359	359	.0718
30	16.57	33.310	6.11							30	16.57	33.310	6.11	24.34	359	360	.1078
50	16.63	33.330	5.80							50	16.63	33.330	5.80	24.34	359	360	.1800
75	16.65	33.330	5.90							75	16.65	33.330	5.90	24.34	360	362	.2703
KOREA ,TAE RAK SAN , STATION 313-06 , 33-24.4. N, 125-24.0. E, DEC.18,1980, 21.40 KST, DEPTH 85 , COLOR , TRANS.																	
WAVE NW 5, SWELL NW 2, WIND NW 6, BARO 1018. , AIP TEMP. DRY 10.4, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	16.30	33.200	5.86							0	16.30	33.200	5.86	24.32	362	361	.0000
10	16.27	33.160	6.11							10	16.27	33.160	6.11	24.29	364	364	.0363
20	16.28	33.160	6.12							20	16.28	33.160	6.12	24.29	364	364	.0728
30	16.39	33.160	5.23							30	16.39	33.160	5.23	24.28	365	365	.1003
50	16.38	33.210	5.87							50	16.38	33.210	5.87	24.31	363	364	.1823
75	16.40	33.240	5.91							75	16.40	33.240	5.91	24.32	361	362	.2703
KOREA ,TAE RAK SAN , STATION 313-07 , 33-24.4. N, 125-24.0. E, DEC.18,1980, 20.30 KST, DEPTH 72 , COLOR , TRANS.																	
WAVE NW 5, SWELL NW 2, WIND NW 6, BARO 1018. , AIP TEMP. DRY 10.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	16.29	33.260	6.02							0	16.29	33.260	6.02	24.37	357	357	.0000
10	16.28	33.240	6.20							10	16.28	33.240	6.20	24.35	358	358	.0358
20	16.32	*****	5.71							20	16.32	*****	5.71	*****	***	***	*****
30	16.35	33.230	6.31							30	16.35	33.230	6.31	24.33	360	361	*****
50	16.35	33.230	5.82							50	16.35	33.230	5.82	24.33	360	362	*****
68	16.35	33.220	5.92														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY		

KOREA ,TAE PAK SAN , STATION 513-08 , 33-24.4. N, 124-48.0. E, DEC.18.1980, 19.20 KST, DEPTH 76 , COLOR , TRANS. . .

WAVE NW 5, SWELL NW 2, WIND NW 6, BARO 1016. , AIR TEMP. DRY 9.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	15.67	33.210	5.81						0	15.67	33.210	5.81	24.47	347	367	.0000
10	15.87	33.210	5.31						10	15.87	33.210	5.31	24.42	352	351	.0350
20	16.00	33.210	5.62						20	16.00	33.210	5.62	24.39	354	355	.0703
30	16.05	33.210	5.70						30	16.05	33.210	5.70	24.38	355	356	.1059
50	16.10	33.050	6.02						50	16.10	33.050	6.02	24.25	368	369	.1785
70	16.09	33.050	6.21													

KOREA ,TAE PAK SAN , STATION 313-07 , 33-24.4. N, 124-76.0. E, DEC.18.1980, 18.10 KST, DEPTH 76 , COLOR , TRANS. . .

WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 1017. , AIR TEMP. DRY 9.8, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	15.23	33.040	6.00						0	15.23	33.040	6.00	24.43	350	350	.0000
10	15.53	33.010	5.72						10	15.53	33.010	5.72	24.34	359	359	.0355
20	15.59	33.100	6.52						20	15.59	33.100	6.52	24.40	354	354	.0712
30	15.60	33.120	5.53						30	15.60	33.120	5.53	24.41	352	353	.1066
50	15.60	33.200	5.62						50	15.60	33.200	5.62	24.47	347	348	.1767
65	15.67	33.200	5.73													

KOREA ,TAE PAK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, DEC.18.1980, 17.00 KST, DEPTH 68 , COLOR , TRANS. . .

WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 1017. , AIR TEMP. DRY 10.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	16.03	33.060	5.91						0	16.03	33.060	5.91	24.27	366	366	.0000
10	16.26	33.050	6.13						10	16.26	33.050	6.13	24.21	372	372	.0359
20	16.26	33.050	6.60						20	16.26	33.050	6.60	24.21	372	372	.0741
30	16.23	33.050	5.50						30	16.23	33.050	5.50	24.22	371	371	.1113
50	16.35	33.050	6.02						50	16.35	33.050	6.02	24.19	374	375	.1851
65	16.30	33.050	5.71													

314선 해양관측성적

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OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

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KOREA , TAE GUK SAN , STATION 314-00 , 33-00.0. N, 126-00.0. E, FEB.11.1984, 14.10 KGT, DEPTH 160 , COLOR 4, TRANS. 14. ,																	
WAVE 4, SWELL 1, WIND NW 4, BARO 1023.5, AIR TEMP. DRY 9.0, WET , , CLOUD, TYPE CI, AMT 3, WEATHER BC,																	
0	15.59	34.480	5.68							0	15.59	34.480	5.68	25.46	253	252	.0000
10	15.51	34.450	5.67							10	15.51	34.450	5.63	25.45	253	253	.0253
20	15.57	34.480	5.60							20	15.57	34.480	5.60	25.46	252	253	.0507
30	15.60	34.470	5.41							30	15.60	34.470	5.41	25.45	254	254	.0761
50	15.63	34.460	5.40							50	15.63	34.460	5.40	25.44	255	256	.1272
75	15.70	34.430	5.55							75	15.70	34.430	5.55	25.40	259	261	.1919
100	15.60	34.430	6.62							100	15.60	34.430	6.62	25.42	257	259	.2570
125	14.20	34.440	5.60							125	14.20	34.440	5.60	25.73	227	230	.3183
150	14.00	34.440	5.40							150	14.00	34.440	5.40	25.77	223	227	.3755

KOREA , TAE GUK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, FEB.11.1980, 12.30 KGT, DEPTH 140 , COLOR 4, TRANS. 14. ,																	
WAVE 3, SWELL 1, WIND NW 3, BARO 1023.5, AIR TEMP. DRY 8.0, WET , , CLOUD, TYPE CI, AMT 3, WEATHER FC,																	
0	15.19	34.460	5.51							0	15.19	34.460	5.51	25.53	246	245	.0000
10	15.41	34.500	5.30							10	15.41	34.500	5.30	25.51	247	247	.0247
20	15.40	34.500	5.41							20	15.40	34.500	5.41	25.52	247	248	.0405
30	15.49	34.470	5.35							30	15.49	34.470	5.35	25.47	251	252	.0745
50	15.45	34.450	5.61							50	15.45	34.450	5.61	25.47	252	253	.1251
75	15.46	34.460	5.10							75	15.46	34.460	5.10	25.45	254	255	.1858
100	15.60	34.450	4.92							100	15.60	34.450	4.92	25.43	255	258	.2531
125	15.55	34.450	5.35							125	15.55	34.450	5.35	25.45	254	257	.3176
150	15.60	*****	*****							150	15.60	*****	*****				

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								
KOREA , TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, FEB.11.1980, 10.50 KST, DEPTH 125 , COLOR 4, TRANS. 13. ,																									
WAVE 3, SWELL 1, WIND NW 3, EARO 1023.5, AIR TEMP. DRY 7.8, WET , CLOUD. TYPE CI, AMT 3, WEATHER EC,																									
0	15.36	34.460	5.02							0	15.36	34.460	5.02	25.50	249	249	.0000								
10	15.55	34.450	5.10							10	15.55	34.450	5.10	25.45	254	254	.0252								
20	15.50	34.450	5.28							20	15.50	34.450	5.28	25.46	253	253	.0506								
30	15.50	34.490	6.21							30	15.50	34.490	6.21	25.49	250	251	.0759								
50	15.50	34.470	5.92							50	15.50	34.470	5.92	25.47	252	253	.1263								
75	15.46	*****	*****							75	15.46	*****	*****	*****	***	***	*****								
100	15.05	34.470	5.05							100	15.05	34.470	5.05	25.57	242	245	*****								
120	14.20	*****	*****																						

KOREA , TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, FEB.11.1980, 09.00 KST, DEPTH 110 , COLOR 4, TRANS. 15. ,																	
WAVE	3, SWELL	1, WIND SW	3, EARO 1023.5, AIR TEMP. DRY	7.8, WET	, CLOUD. TYPE CI, AMT 4, WEATHER EC,												
0	15.28	34.440	5.31							0	15.28	34.440	5.31	25.50	249	249	.0000
10	15.40	34.450	5.92							10	15.40	34.450	5.92	25.48	251	251	.0250
20	15.51	34.450	5.62							20	15.51	34.450	5.62	25.45	253	254	.0503
30	15.50	34.450	5.52							30	15.50	34.450	5.52	25.46	253	254	.0757
50	15.50	34.450	5.60							50	15.50	34.450	5.60	25.46	253	254	.1266
75	15.51	34.450	5.61							75	15.51	34.450	5.61	25.45	253	255	.1904
100	15.42	34.460	5.70							100	15.42	34.460	5.70	25.50	249	252	.2538
105	15.50	34.450	5.26														

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL.P	N02.N	N03.N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY								

KOREA ,TAE BAK SAN , STATION 314-04 , 73-00.0. N, 126-48.0. E, FEB.11.1980, 07.20 KST, DEPTH 100 , COLOR , TRANSP. . .

WAVE 3, SWELL 1, WIND SW 3, BARO 1024. , AIR TEMP. DRY 7.6, WET . , CLOUD. TYPE CI, AMT 3, WEATHER CC,

0	15.40	34.450	5.20							0	15.40	34.450	5.20	25.48	251	251	.0000
10	15.52	34.450	5.16							10	15.52	34.450	5.16	25.45	253	253	.0253
20	15.58	34.460	5.37							20	15.58	34.460	5.37	25.45	254	254	.0507
30	15.68	34.470	5.30							30	15.68	34.470	5.30	25.43	255	256	.0763
50	15.58	34.440	5.91							50	15.58	34.440	5.91	25.43	255	257	.1276
75	15.55	34.440	5.71							75	15.55	34.440	5.71	25.44	255	257	.1919
95	15.54	34.530	5.21														

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KOREA ,TAE BAK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, FEB.10.1980, 16.40 KST, DEPTH 100 , COLOR , TRANSP. . .

WAVE 4, SWELL 1, WIND NW 4, BARO 1024. , AIR TEMP. DRY 5.7, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,

0	15.47	34.430	5.02							0	15.47	34.430	5.02	25.45	254	254	.0000
10	15.56	34.430	5.15							10	15.56	34.430	5.15	25.43	256	256	.0255
20	15.51	34.450	4.71							20	15.51	34.450	4.71	25.45	253	254	.0510
30	15.53	34.420	5.00							30	15.53	34.420	5.00	25.43	256	256	.0766
50	15.51	34.420	5.02							50	15.51	34.420	5.02	25.43	255	257	.1280
75	15.50	*****	5.78							75	15.50	*****	5.78	*****	***	***	*****
95	15.51	34.440	5.50														

KOREA ,TAE BAK SAN , STATION 314-04 , 33-00.0. N, 126-12.0. E, FEB.10.1980, 15.10 KST, DEPTH 110 , COLOR , TRANSP. . .

WAVE 4, SWELL 1, WIND NW 4, BARO 1024.5, AIR TEMP. DRY 5.5, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,

0	15.00	34.500	5.41							0	15.00	34.500	5.41	25.61	239	239	.0000
10	15.01	34.500	6.21							10	15.01	34.500	6.21	25.60	239	239	.0239

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

20	15.01	34.500	5.82							20	15.01	34.500	5.82	25.60	239	279	.0479
30	14.99	34.500	5.85							30	14.99	34.500	5.85	25.61	239	279	.0719
50	15.00	34.490	5.11							50	15.00	34.490	5.11	25.60	240	241	.1200
75	14.98	34.480	5.81							75	14.98	34.480	5.81	25.59	240	242	.1804
100	14.88	34.480	5.00							100	14.88	34.480	5.00	25.62	238	240	.2408

KOREA ,TAE BAK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, FEB.10.1980, 13.30 KST, DEPTH 90 , COLOR , TRANS. ,
WAVE 4, SWELL 1, WIND NW 4, BARO 1024.8, AIR TEMP. DRY 5.2, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,

0	14.80	34.500	5.35							0	14.80	34.500	5.35	25.65	235	234	.0090
10	14.84	34.480	5.78							10	14.84	34.480	5.78	25.63	237	237	.0236
20	14.89	34.500	6.20							20	14.89	34.500	6.20	25.63	237	237	.0474
30	14.90	34.490	5.61							30	14.90	34.490	5.61	25.62	238	238	.0712
50	14.86	34.500	5.21							50	14.86	34.500	5.21	25.64	234	237	.11
75	14.82	34.470	****							75	14.88	34.470	****	25.61	239	240	.1786
85	14.45	40.000	****														

KOREA ,TAE BAK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, FEB.10.1980, 11.40 KST, DEPTH 90 , COLOR , TRANS. ,
WAVE 4, SWELL 1, WIND NW 4, BARO 1025.5, AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,

0	14.57	34.430	5.81							0	14.57	34.430	5.81	25.64	235	279	.0000
10	14.55	34.430	5.80							10	14.55	34.430	5.80	25.65	235	275	.0235
20	14.53	34.440	5.43							20	14.53	34.440	5.43	25.66	234	274	.0470
30	14.54	34.450	5.40							30	14.54	34.450	5.40	25.67	233	274	.0704
50	14.53	34.450	5.37							50	14.53	34.450	5.37	25.67	235	274	.1173
75	14.51	34.450	5.35							75	14.51	34.450	5.35	25.67	232	274	.1769
85	14.24	34.450	5.33														

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KORCA , TAE BAK SAN , STATION 314-00 , 33-00.0. N, 125-18.0. E, EFF. 10.1980, 10.00 VST, DEPTH 80 , COLOR , TRANS. ,
 WAVE 4, SWELL 1, WIND NW 4, BARO 1025.5, AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE CI, AMT 10, WEATHEP C ,

0	14.11	34.490	5.61							0	14.11	34.490	5.61	25.79	221	221	.0000
10	14.21	34.420	5.60							10	14.21	34.420	5.60	25.71	222	222	.0223
20	14.36	34.470	5.21							20	14.36	34.470	5.21	25.72	228	228	.0454
30	14.40	34.470	6.62							30	14.40	34.470	6.62	25.71	229	229	.0683
50	14.39	34.480	5.00							50	14.39	34.480	5.00	25.72	228	229	.1143
75	14.29	34.480	5.52							75	14.29	34.480	5.52	25.74	226	228	.1714

KOPEA , TAE BAK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, EFF. 10.1980, 08.20 VST, DEPTH 75 , COLOR , TRANS. ,
 WAVE 4, SWELL 1, WIND NW 4, BARO 1025.5, AIR TEMP. DRY 4.8, WET . , CLOUD. TYPE CI, AMT 10, WEATHER C ,

0	14.08	34.470	5.43							0	14.08	34.470	5.43	25.76	222	222	.0000
10	14.15	34.480	5.42							10	14.15	34.480	5.42	25.77	223	223	.0223
20	14.21	34.460	5.65							20	14.21	34.460	5.65	25.74	226	226	.0448
30	14.20	34.460	5.63							30	14.20	34.460	5.63	25.73	227	228	.0675
50	14.41	34.460	5.41							50	14.41	34.460	5.41	25.70	220	221	.1175
70	14.44	34.460	5.30														

4월(April)

KORCA , TAE BAK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, EFF. 15.1980, 07.00 VST, DEPTH 160 , COLOR 4, TRANS. 15. ,
 WAVE 4, SWELL 2, WIND NW 5, BARO 1013. , AIR TEMP. DRY 10.0, WET . , CLOUD. TYPE CI, AMT 3, WEATHER BC,

0	14.30	34.470	****							0	16.30	34.470	****	25.29	269	269	.0000
10	14.23	34.460	****							10	16.23	34.460	****	25.30	268	268	.0269
20	14.24	34.360	****							20	16.24	34.360	****	25.22	276	276	.0341

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	16.31	34.320	*****							30	16.31	34.380	*****	25.22	276	276	.0818
50	16.21	34.360	*****							50	16.21	34.360	*****	25.23	275	276	.1371
75	15.57	34.330	*****							75	15.57	34.330	*****	25.35	263	265	.2049
100	14.96	34.320	*****							100	14.96	34.320	*****	25.48	251	254	.2698
125	14.88	34.340	*****							125	14.88	34.340	*****	25.53	248	251	.3331
150	14.63	34.310	*****							150	14.63	34.310	*****	25.54	245	249	.3957

KOREA , TAE PAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, APR.15.1980, 08.50 KST, DEPTH 140 , COLOR 4, TRANS. 15. ,
 WAVE 4, SWELL 2, WIND NW 5, BARO 1014. , AIR TEMP. DRY 10.0, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,

0	16.70	34.360	5.93							0	16.70	34.360	5.93	25.11	286	285	.0000
10	16.19	34.380	5.79							10	16.19	34.380	5.79	25.25	273	273	.0280
20	16.40	34.480	5.90							20	16.40	34.480	5.90	25.27	270	271	.0552
30	16.47	34.480	5.78							30	16.47	34.480	5.78	25.26	272	272	.0824
50	16.42	34.480	5.73							50	16.42	34.480	5.73	25.27	271	272	.1369
75	16.40	34.470	5.83							75	16.40	34.470	5.83	25.27	271	273	.2052
100	16.34	34.470	5.89							100	16.34	34.470	5.89	25.28	270	272	.2735
125	16.22	34.460	5.40							125	16.22	34.460	5.40	25.30	268	271	.3415

KOREA , TAE PAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, APR.15.1980, 10.40 KST, DEPTH 125 , COLOR 4, TRANS. 14. ,
 WAVE 4, SWELL 2, WIND NW 5, BARO 1014.5, AIR TEMP. DRY 10.4, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,

0	15.56	34.440	*****							0	15.56	34.440	*****	25.44	255	255	.0000
10	15.59	34.450	*****							10	15.59	34.450	*****	25.44	255	255	.0255
20	15.26	34.440	*****							20	15.26	34.440	*****	25.50	249	249	.0508
30	15.50	34.450	*****							30	15.50	34.450	*****	25.46	253	254	.0760

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	15.60	34.450	*****							50	15.60	34.450	*****	25.43	255	276	.1270
75	15.58	34.450	*****							75	15.58	34.450	*****	25.44	255	277	.1913
100	15.57	34.450	*****							100	15.57	34.450	*****	25.44	264	277	.2568
120	15.12	*****	*****														
KORFA TAE BAEK SAN STATION 314-07, 32-00.0. N, 127-06.0. E, APR. 15, 1980, 12.30 KST, DEPTH 110, COLOR 4, TRANS. 14.																	
WAVE 4, SWELL 2, WIND NW 5, BARO 1014, AIP TEMP. DRY 10.4, WET, CLOUD. TYPE CI, AMT 2, WEATHER B.																	
0	15.94	34.440	5.97							0	15.94	34.440	5.93	25.35	263	263	.0000
10	16.00	34.440	5.90							10	16.00	34.440	5.90	25.34	264	264	.0264
20	16.06	34.440	5.71							20	16.06	34.440	5.71	25.32	266	266	.0530
30	16.02	34.460	5.70							30	16.02	34.460	5.70	25.35	263	264	.0796
50	15.97	34.440	5.52							50	15.97	34.440	5.52	25.34	264	265	.1326
75	16.00	34.390	5.30							75	16.00	34.390	5.90	25.30	268	270	.1996
100	16.00	34.420	5.61							100	16.00	34.420	5.61	25.32	266	269	.2670
KORFA TAE BAEK SAN STATION 314-04, 33-00.0. N, 126-48.0. E, APR. 15, 1980, 14.20 KST, DEPTH 100, COLOR 4, TRANS. 13.																	
WAVE 3, SWELL 2, WIND NE 4, BARO 1014, AIP TEMP. DRY 11.0, WET, CLOUD. TYPE CI, AMT 2, WEATHER B.																	
0	16.80	34.470	*****							0	16.80	34.470	*****	25.17	280	280	.0000
10	16.84	34.460	*****							10	16.84	34.480	*****	25.17	280	280	.0280
20	16.90	34.460	*****							20	16.90	34.480	*****	25.16	281	282	.0562
30	16.91	34.450	*****							30	16.91	34.450	*****	25.13	284	284	.0845
50	16.86	34.460	*****							50	16.86	34.460	*****	25.15	282	283	.1414
75	16.66	34.470	*****							75	16.66	34.470	*****	25.25	272	274	.2112
100	15.55	34.420	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-10.0. E, APR.15.1980, 14.10 KST, DEPTH 100 , COLOR 4, TRANS. 12. ,
 WAVE 2, SWELL 2, WIND NW 3, BARO 1014. , AIR TEMP. DRY 17.7, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,

0	16.30	34.460	5.63							0	16.30	34.460	5.63	25.28	270	269	.0000
10	16.25	34.440	5.91							10	16.25	34.440	5.91	25.28	270	270	.0270
20	16.10	34.460	6.10							20	16.10	34.460	6.10	25.33	265	265	.0538
30	16.11	34.450	5.70							30	16.11	34.450	5.70	25.32	266	267	.0805
50	15.52	34.440	5.00							50	15.52	34.440	5.00	25.44	254	255	.1328
75	15.50	34.420	4.83							75	15.50	34.420	4.83	25.43	255	257	.1970
95	15.50	34.410	5.01														

KOREA ,TAE BAEK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, APR.15.1980, 18.00 KST, DEPTH 110 , COLOR 4, TRANS. 12. ,
 WAVE 2, SWELL 2, WIND W 3, BARO 1014. , AIR TEMP. DRY 10.0, WET . , CLOUD. TYPE CI, AMT 3, WEATHER BC,

0	15.49	34.390	*****							0	15.49	34.390	*****	25.41	257	257	.0000
10	15.43	34.380	*****							10	15.43	34.380	*****	25.42	257	257	.0257
20	15.43	34.400	*****							20	15.43	34.400	*****	25.43	255	255	.0514
30	15.40	34.380	*****							30	15.40	34.380	*****	25.43	256	257	.0770
50	15.35	34.360	*****							50	15.35	34.360	*****	25.42	256	258	.1286
75	15.73	34.290	*****							75	15.33	34.290	*****	25.37	261	263	.1937
100	15.30	34.360	*****							100	15.30	34.360	*****	25.43	255	258	.2590

KOREA ,TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 126-14.0. E, APR.15.1980, 19.50 KST, DEPTH 90 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND NW 3, BARO 1014. , AIR TEMP. DRY 9.8, WET . , CLOUD. TYPE , AMT , WEATHER BC,

0	14.67	34.490	5.82							0	14.67	34.490	5.82	25.67	233	232	.0000
10	14.61	34.500	5.81							10	14.61	34.500	5.81	25.65	235	235	.0234

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

20 14.81 34.470 5.93
 30 14.73 34.460 5.91
 50 14.74 34.460 6.26
 75 14.71 34.460 6.24
 85 14.72 34.450 5.82

KOREA TAE EAK SAN STATION 314-08 33-00.0. N, 125-36.0. E, APR. 15, 1960, 21.40 PST, DEPTH 90 , COLOR , TRANS. . .
 WAVE 2, SWELL 1, WIND NW 3, BARO 1015. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE , AMT , WEATHER P ,

0 17.86 34.390 ***** 0 13.86 34.390 ***** 25.76 224 223 .0000
 10 17.90 34.390 ***** 10 13.90 34.390 ***** 25.76 225 225 .0225
 20 14.09 34.420 ***** 20 14.09 34.420 ***** 25.74 226 226 .0451
 30 14.20 34.470 ***** 30 14.20 34.470 ***** 25.75 225 225 .0677
 50 14.25 34.490 ***** 50 14.25 34.490 ***** 25.76 224 225 .1128
 75 14.25 34.490 ***** 75 14.25 34.490 ***** 25.76 224 226 .1694
 85 14.26 34.480 *****

KOREA TAE EAK SAN STATION 314-08 33-00.0. N, 125-36.0. E, APR. 15, 1960, 23.20 PST, DEPTH 80 , COLOR , TRANS. . .
 WAVE 2, SWELL 1, WIND SE 2, BARO 1015. , AIR TEMP. DRY 8.5, WET , CLOUD. TYPE , AMT , WEATHER EC,

0 17.88 34.390 ***** 0 13.88 34.390 ***** 25.76 224 224 .0000
 10 17.94 34.490 ***** 10 13.94 34.490 ***** 25.82 218 218 .0221
 20 17.90 34.400 ***** 20 13.90 34.400 ***** 25.76 224 224 .0443
 30 17.78 34.400 ***** 30 13.78 34.400 ***** 25.79 221 222 .0667
 50 17.90 34.420 ***** 50 13.90 34.420 ***** 25.78 222 223 .1113
 75 17.88 34.390 ***** 75 13.88 34.390 ***** 25.76 224 226 .1676

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE PAK SAN , STATION 314-10 , 33-00.0. N, 128-00.0. E, APP. 16.1980, 01.20 KST, DEPTH 75 , COLOR , TRANS. . .																	
WAVE 2, SWELL 1, WIND SE 2, BARO 1015. , AIR TEMP. DRY 25.5, WET . , CLOUD. TYPE , AMT , WEATHER PC.																	
0	12.70	34.380	*****							0	12.70	34.380	*****	25.99	202	202	.0000
10	12.67	34.380	*****							10	12.67	34.380	*****	26.00	202	202	.0202
20	12.83	34.420	*****							20	12.63	34.420	*****	26.00	202	202	.0404
30	13.11	34.120	*****							30	13.11	34.120	*****	25.71	229	229	.0621
50	13.30	34.150	*****							50	13.30	34.150	*****	25.69	230	231	.1083
70	17.35	34.180	*****														

6월 (June)

KOREA , TAE PAEK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, JUN.10.1980, 17.40 KST, DEPTH 160 , COLOR , TRANS. . .																		
WAVE SE 2, SWELL E 1, WIND SE 2, BARO 1014. , AIR TEMP. DRY 19.1, WET . , CLOUD. TYPE AS, AMT 10, WEATHER F ,																		
0	21.01	32.790	5.62							0	21.01	32.790	5.62	22.83	503	503	.0000	
10	20.71	37.600	5.73							10	20.71	37.600	5.73	23.53	437	477	.0470	
20	19.45	33.610	5.92							20	19.45	33.610	5.92	23.87	405	405	.0892	
30	18.87	33.530	5.93							30	18.87	33.530	5.93	23.05	396	397	.1293	
50	17.83	33.750	6.02							50	17.83	33.750	6.02	24.38	356	357	.2048	
75	15.64	37.860	5.63							75	15.64	33.880	5.63	24.09	298	209	.2870	
100	15.49	34.090	5.12							100	15.49	34.090	5.12	25.18	279	282	.3597	
125	15.57	34.460	4.46							125	15.57	34.460	4.46	25.45	254	257	.4272	
150	15.23	34.560	4.37							150	15.23	34.560	4.37	25.60	239	243	.4898	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE EAK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, JUN.10.1980, 15.50 KST, DEPTH 130 , COLOR , TRANS. , ,																	
WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1005.5, AIR TEMP. DRY 10.6, WET																	
0	21.40	33.840	6.74							0	21.40	33.840	6.74	23.52	437	437	.0000
10	21.21	33.920	****							10	21.21	33.920	****	23.64	426	426	.0432
20	20.97	33.890	5.78							20	20.97	33.890	5.78	23.68	422	423	.0857
30	18.53	33.890	6.23							30	18.53	33.890	6.23	24.31	362	363	.1250
50	15.89	34.150	6.17							50	15.89	34.150	6.17	25.14	283	284	.1898
75	15.49	34.360	5.53							75	15.49	34.360	5.53	25.39	259	261	.2582
100	15.20	34.090	4.87							100	15.20	34.090	4.87	25.25	273	275	.3254
125	14.90	34.160	4.31							125	14.90	34.160	4.31	25.37	262	265	.3930
KOREA ,TAE EAK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, JUN.10.1980, 14.10 KST, DEPTH 125 , COLOR , TRANS. , ,																	
WAVE NW 2, SWELL NW 1, WIND N 3, BARO 1006. , AIR TEMP. DRY 19.3, WET																	
0	21.40	33.900	5.77							0	21.40	33.900	5.77	23.57	433	433	.0000
10	21.20	33.910	5.54							10	21.20	33.910	5.54	23.63	427	427	.0430
20	20.34	33.880	5.70							20	20.34	33.880	5.70	23.84	407	407	.0848
30	19.91	33.910	6.18							30	19.91	33.910	6.18	23.98	394	395	.1249
50	20.56	33.920	6.12							50	20.56	33.920	6.12	23.81	410	411	.2056
75	19.20	33.980	6.13							75	19.20	33.980	6.13	24.21	372	374	.3038
100	16.33	34.450	5.43							100	16.33	34.450	5.43	25.27	271	274	.3848
120	15.31	34.520	5.15														
KOREA ,TAE EAK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, JUN.10.1980, 12.20 KST, DEPTH 110 , COLOR , TRANS. , ,																	
WAVE NW 2, SWELL NW 1, WIND N 3, BARO 1007. , AIR TEMP. DRY 18.8, WET																	
0	20.81	33.900	5.71							0	20.81	33.900	5.71	23.73	418	417	.0000
10	20.63	33.910	6.53							10	20.63	33.910	6.53	23.79	412	412	.0415

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	M02-N	M03-N	SI	PH	DEPTH	TEMP	SI	PH	DEPTH	TEMP	SI	PH
20	19.65	34.910	6.12							20	19.65	34.910	6.12	24.04	388	388	.0816
30	16.83	34.210	6.84							30	16.83	34.210	6.84	24.07	300	300	.1160
50	15.76	34.360	5.94							50	15.76	34.360	5.94	25.33	265	265	.1778
75	15.19	34.510	5.53							75	15.19	34.510	5.53	25.67	237	237	.2153
100	14.91	34.540	5.14							100	14.91	34.540	5.14	25.66	234	234	.2069
KOREA , TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, JUN.10.1980, 10.40 KST, DEPTH 100 , COLOR , TSPNS. ,																	
WAVE NW 2, SWELL W 1, WIND NW 3, BARO 1007. , AIR TEMP. DRY 19.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER R ,																	
0	20.14	34.110	6.24							0	20.14	34.110	6.24	24.07	385	385	.0000
10	19.24	34.060	6.14							10	19.24	34.060	6.14	24.26	367	367	.0376
20	18.03	34.220	5.27							20	18.03	34.220	5.27	24.69	326	326	.0724
30	15.90	34.270	6.43							30	15.90	34.270	6.43	25.23	275	275	.1025
50	15.39	34.510	5.73							50	15.39	34.510	5.73	25.53	246	246	.1549
75	14.56	34.450	5.51							75	14.56	34.450	5.51	25.66	233	233	.2153
95	14.54	34.440	5.28														
KOREA , TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, JUN.10.1980, 08.40 KST, DEPTH 100 , COLOR , TSPNS. ,																	
WAVE W 2, SWELL W 1, WIND NW 3, BARO 1006.8, AIR TEMP. DRY 20.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER R ,																	
0	20.10	34.110	5.63							0	20.10	34.110	5.63	24.08	384	384	.0000
10	19.21	34.170	5.92							10	19.21	34.170	5.92	24.35	358	358	.0372
20	17.71	34.340	5.86							20	17.71	34.340	5.86	24.86	310	310	.0706
30	16.18	34.260	5.93							30	16.18	34.260	5.93	25.16	282	282	.1003
50	15.57	34.270	5.63							50	15.57	34.270	5.63	25.30	268	268	.1555
75	15.11	34.560	4.81							75	15.11	34.560	4.81	25.63	237	237	.2190
95	15.04	34.530	4.93														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , TAE EAK SAN , STATION 314-06 , 33-00.0. N, 124-12.0. E, JUN.10.1960, 07.00 PST, DEPTH 110 , COLOR , TRANS. ,																		
WAVE NW 4, SWELL NW 1, WIND NW 4, EARO 1006.5, AIR TEMP. DRY 18.2, WET , CLOUD. TYPE HS, AMT 10, WEATHER C ,																		
0	19.04	34.130	6.03							0	19.04	34.130	6.03	24.37	357	356	.0000	
10	17.52	34.220	5.73							10	17.52	34.220	5.73	24.81	314	314	.0336	
20	17.76	34.230	5.62							20	17.76	34.230	5.62	24.76	319	320	.0653	
30	16.53	34.270	5.64							30	16.53	34.270	5.64	25.08	289	289	.0958	
50	16.10	34.250	5.73							50	16.10	34.250	5.73	25.17	281	282	.1530	
75	15.70	34.430	5.22							75	15.70	34.430	5.22	25.40	259	261	.2209	
100	15.32	34.460	4.73							100	15.32	34.480	4.73	25.52	247	250	.2848	
KOREA , TAE EAK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, JUN.10.1960, 05.10 PST, DEPTH 90 , COLOR , TRANS. ,																		
WAVE NW 3, SWELL N 1, WIND NW 4, EARO 1006.5, AIR TEMP. DRY 18.4, WET , CLOUD. TYPE HS, AMT 10, WEATHER C ,																		
0	19.69	33.510	5.87							0	19.69	33.510	5.87	23.73	418	417	.0000	
10	19.67	33.590	5.60							10	19.67	33.590	5.60	23.79	411	411	.0415	
20	18.19	34.020	5.92							20	18.19	34.020	5.93	24.50	345	345	.0794	
30	18.01	34.120	5.73							30	18.01	34.120	5.73	24.62	333	324	.1133	
50	17.78	34.430	5.80							50	17.78	34.430	5.80	24.91	305	306	.1774	
75	15.00	34.490	4.83							75	15.00	34.490	4.83	25.60	240	241	.2460	
85	15.00	34.540	5.05															
KOREA , TAE EAK SAN , STATION 314-08 , 33-00.0. N, 125-16.0. E, JUN.10.1960, 03.30 PST, DEPTH 90 , COLOR , TRANS. ,																		
WAVE W 2, SWELL NW 1, WIND W 3, EARO 1007.5, AIR TEMP. DRY 18.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																		
0	18.84	32.450	5.92							0	18.84	32.430	5.92	23.12	476	475	.0000	
10	16.91	32.450	6.34							10	16.91	32.450	6.34	23.60	430	430	.0453	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	15.09	33.180	6.32							20	15.09	33.180	6.32	24.57	337	378	.0837
30	12.45	33.250	6.02							30	12.45	33.250	6.02	25.17	281	281	.1147
50	13.31	33.850	*****							50	13.31	33.850	*****	25.46	253	254	.1683
75	13.63	34.040	*****							75	13.63	34.040	*****	25.4			
80	13.74	34.060	5.53														

KOREA ,TAE BAK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, JUN.10.1980, 01.40 PST, DEPTH 80 , COLOR , TPANS. . .
 WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1007.5, AIR TEMP. DRY 18.2, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	18.45	32.250	5.67							0	18.45	32.250	5.67	23.08	479	479	.0000
10	18.28	32.240	6.23							10	18.28	32.240	6.23	23.12	476	476	.0478
20	15.61	32.320	6.33							20	15.61	32.320	6.33	23.80	411	411	.0922
30	13.11	32.490	6.85							30	13.11	32.490	6.85	24.45	349	349	.1303
50	13.00	32.500	6.23							50	13.00	32.500	6.23	24.48	346	347	.2000
75	12.95	33.690	5.52							75	12.95	33.690	5.52	25.41	258	259	.2759

KOREA ,TAE BAK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, JUN.10.1980, 06.00 PST, DEPTH 75 , COLOR , TPANS. . .
 WAVE NW 2, SWELL N 1, WIND NW 3, BARO 1008. , AIR TEMP. DRY 18.4, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	18.69	32.180	5.62							0	18.69	32.180	5.62	22.97	490	490	.0000
10	17.81	32.100	6.17							10	17.81	32.100	6.17				
20	14.50	32.240	6.77							20	14.50	32.240	6.77	23.97	394	394	.0916
30	14.30	32.440	6.47							30	14.30	32.440	6.47	24.17	376	376	.1301
50	11.32	32.730	5.49							50	11.32	32.730	5.48	24.97	299	300	.1978
70	11.24	32.840	5.43														

OBSERVED						INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2
										SIGMA-T	D-T	SVA	D-DY

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KOREA ,TAE RACK SAN , STATION 314-00 , 33-00.0. N, 127-00.0. E, AUG.10.1980, 23.50 VST, DEPTH 160 , COLOR , TRANS. ,
 WAVE 3, SWELL 1, WIND NE 4, BARO 1004.5, AIR TEMP. DRY 24.4, WET , , CLOUD. TYPE , AMT , WEATHER BC,

0	26.50	33.240	4.50							0	26.50	33.240	4.50	21.57	624	623	.0000
10	26.20	33.220	4.40							10	26.20	33.220	4.40	21.65	616	616	.0620
20	25.30	33.480	4.87							20	25.30	33.480	4.87	22.13	571	571	.1214
30	21.60	33.700	5.50							30	21.60	33.700	5.50	23.36	453	453	.1727
50	18.60	33.020	5.01							50	18.60	33.020	5.01	24.32	361	363	.2544
75	18.58	34.240	4.10							75	18.58	34.240	4.10	24.57	338	340	.3427
100	18.20	34.040	4.98							100	18.20	34.040	4.98	24.51	343	346	.4282
125	17.99	34.430	4.70							125	17.99	34.430	4.70	24.86	310	314	.5108
150	17.75	34.450	4.60							150	17.75	34.450	4.60	24.93	303	307	.5885

KOREA ,TAE RACK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, AUG.10.1980, 22.10 VST, DEPTH 140 , COLOR , TRANS. ,
 WAVE 3, SWELL 1, WIND NE 4, BARO 1004.5, AIR TEMP. DRY 24.4, WET , , CLOUD. TYPE , AMT , WEATHER BC,

0	26.40	33.100	4.90							0	26.40	33.100	4.90	21.50	631	630	.0000
10	26.30	33.090	4.58							10	26.30	33.090	4.58	21.52	628	628	.0630
20	26.08	33.100	****							20	26.08	33.100	****	21.60	621	622	.1255
30	20.90	34.120	5.08							30	20.90	34.120	5.08	23.87	404	405	.1759
50	20.89	34.500	4.89							50	20.89	34.500	4.89	24.16	376	377	.2552
75	20.25	34.400	4.90							75	20.25	34.400	4.90	24.26	367	369	.3487
100	19.40	34.590	4.31							100	19.40	34.590	4.31	24.63	332	335	.4368
125	17.10	34.260	4.11							125	17.10	34.260	4.11	24.94	302	305	.5170

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE RAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, AUG.10.1980, 20.20 PST, DEPTH 125 , COLOR , TRANS. ,
 WAVE 7, SWELL 1, WIND NE 4, BARO 1004. , AIR TEMP. DRY 26.4, WET . , CLOUD. TYPE , AMT , WEATHER FC.

0	26.80	32.790	4.47							0	26.80	32.790	4.47	21.14	665	665	.0000
10	26.41	32.790	4.37							10	26.41	32.790	4.37	21.26	653	653	.0660
20	26.31	32.790	4.50							20	26.31	32.790	4.50	21.30	650	651	.1312
30	21.76	34.450	5.00							30	21.76	34.450	5.00	23.89	402	403	.1840
50	20.80	34.730	4.49							50	20.80	34.730	4.49	24.36	357	359	.2602
75	19.28	34.630	4.01							75	19.28	34.630	4.01	24.69	326	328	.3462
100	17.44	34.520	4.78							100	17.44	34.520	4.78	25.06	291	293	.4241
120	15.17	34.280	4.20														

KOREA ,TAE RAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, AUG.10.1980, 18.40 KST, DEPTH 110 , COLOR , TRANS. ,
 WAVE NW 3, SWELL NW 1, WIND SW 4, BARO 1003. , AIR TEMP. DRY 25.0, WET . , CLOUD. TYPE AC, AMT 7, WEATHER FC.

0	26.37	32.550	.04							0	26.37	32.550	.04	21.10	669	669	.0000
10	25.38	32.560	4.59							10	25.38	32.560	4.59	21.41	640	640	.0655
20	25.30	32.600	4.60							20	25.30	32.600	4.60	21.46	634	635	.1292
30	21.87	34.460	5.00							30	21.87	34.460	5.00	23.86	405	405	.1813
50	18.60	34.270	4.93							50	18.60	34.270	4.93	24.58	336	337	.2557
75	16.18	34.030	4.31							75	16.18	34.030	4.31	24.98	298	300	.3355
100	14.61	*****	4.43							100	14.61	*****	4.43	*****	***	***	*****

KOREA ,TAE RAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, AUG.10.1980, 16.40 KST, DEPTH 100 , COLOR 3, TRANS. 22.0,
 WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1003.5, AIR TEMP. DRY 26.3, WET . , CLOUD. TYPE CS, AMT 4, WEATHER FC.

0	18.69	32.180	5.62							0	18.69	32.180	5.62	22.97	490	490	.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	17.91	32.170	6.17							10	17.91	32.170	6.17	23.15	473	473	.0482
20	14.50	32.240	6.77							20	14.50	32.240	6.77	23.97	394	394	.0916
30	14.30	32.440	6.43							30	14.30	32.440	6.43	24.17	375	376	.1301
50	11.32	32.730	5.48							50	11.32	32.730	5.48	24.97	299	300	.1978
70	11.24	32.860	5.43							75	11.24	32.860	5.43	25.09	288	289	.2715
100	15.32	34.480	4.73							100	15.32	34.480	4.73	25.52	247	250	.3390
KOREA ,TAE BACK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, AUG.10.1980, 15.10 KST, DEPTH 100 , COLOR 3, TPANS. 21.0.																	
WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1003. , AIR TEMP. DRY 27.0, WET , , CLOUD. TYPE CC, AMT 3, WEATHER FC,																	
0	25.28	32.680	4.62							0	25.28	32.680	4.62	21.53	628	628	.0000
10	24.97	32.660	****							10	24.97	32.660	****	21.61	620	620	.0625
20	20.51	33.370	5.36							20	20.51	33.370	5.36	23.41	448	449	.1160
30	18.38	33.340	4.22							30	18.38	33.340	4.22	23.93	398	399	.1584
50	18.30	33.470	4.80							50	18.30	33.470	4.80	24.05	387	388	.2372
75	17.90	33.690	5.00							75	17.90	33.690	5.00	24.31	362	364	.3314
95	17.75	33.840	4.50														
KOREA ,TAE EACK SAN , STATION 314-04 , 33-00.0. N, 126-12.0. E, AUG.10.1980, 13.20 KST, DEPTH 120 , COLOR 3, TPANS. 22.0.																	
WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1004. , AIR TEMP. DRY 25.2, WET , , CLOUD. TYPE CC, AMT 3, WEATHER BC,																	
0	25.03	32.670	4.70							0	25.03	32.670	4.70	21.60	621	621	.0000
10	24.94	32.710	4.70							10	24.94	32.710	4.70	21.65	616	616	.0619
20	21.08	32.740	5.11							20	21.08	32.360	5.11	23.25	464	464	.1160
30	18.09	32.890	5.35							30	18.09	32.890	5.35	24.42	352	352	.1568
50	16.78	34.070	4.71							50	16.78	34.070	4.71	24.97	309	310	.2231
75	17.71	34.050	4.60							75	16.71	34.050	4.60	24.97	309	310	.3008
100	17.11	34.130	4.40							100	16.11	34.130	4.40	25.07	290	292	.3762

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, AUG.10.1980, 11.40 KST, DEPTH 90 , COLOR 3, TRANS. 23.0.																	
WAVE NW 3, SWELL NW 1, WIND NW 4, BARO 1004. , AIR TEMP. DRY 25.4, WET . , CLOUD. TYPE AC, AMT 3, WEATHER FC,																	
0	25.30	32.740	4.61							0	25.30	32.740	4.61	21.57	624	624	.0000
10	25.11	32.690	4.72							10	25.11	32.690	4.72	21.59	622	622	.0624
20	24.09	32.710	4.85							20	24.09	32.710	4.85	21.91	592	592	.1271
30	19.96	32.690	5.30							30	19.96	32.690	5.30	22.79	411	411	.1774
50	18.21	33.710	4.80							50	18.21	33.710	4.80	24.25	368	369	.2516
75	17.98	32.760	4.70							75	17.98	32.780	4.70	24.36	357	359	.3426
85	17.10	34.100	****														
KOREA TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, AUG.10.1980, 09.50 KST, DEPTH 90 , COLOR 3, TRANS. 22.0.																	
WAVE 3, SWELL 1, WIND NW 4, BARO 1004. , AIR TEMP. DRY 25.4, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,																	
0	24.90	32.650	4.70							0	24.90	32.650	4.70	21.62	619	619	.0000
10	24.59	32.500	4.71							10	24.59	32.580	4.71	21.66	615	615	.0618
20	24.54	32.610	4.70							20	24.54	32.610	4.70	21.70	612	612	.1272
30	24.42	32.620	4.71							30	24.42	32.620	4.71	21.74	608	608	.1774
50	16.15	33.630	5.61							50	16.15	33.630	5.61	24.68	327	328	.2780
75	13.42	33.470	5.76							75	13.42	33.470	5.76	25.14	283	284	.3546
85	14.03	34.160	4.71														
KOREA TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, AUG.10.1980, 08.10 KST, DEPTH 90 , COLOR 3, TRANS. 27.0.																	
WAVE 3, SWELL 1, WIND NW 4, BARO 1004. , AIR TEMP. DRY 25.2, WET . , CLOUD. TYPE CI, AMT 3, WEATHER BC,																	
0	24.61	32.000	4.71							0	24.61	32.000	4.71	21.22	658	657	.0000
10	24.41	32.740	5.20							10	24.41	32.160	5.20	21.40	641	641	.0449

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	27.20	37.320	5.11							20	23.20	37.320	5.11	21.87	296	506	.1268
30	17.89	37.60	5.53							30	13.89	37.780	5.53	24.52	342	343	.1738
50	12.55	37.150	*****							50	12.55	37.150	*****	25.07	290	291	.2372
75	17.20	37.800	4.15							75	17.20	37.800	4.85	25.42	256	258	.3059
KOREA , TAE RACK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, AUG. 10, 1980, 06.20 YST, DEPTH 75 , COLOR , TPANS. . .																	
WAVE NW 3, SWELL NW 1, WIND NW 4, BARO 1004.2, AIR TEMP. DRY 23.2, WET . , CLOUD. TYPE CI, AMT 3, WEATHER BC,																	
0	24.15	31.120	4.81							0	24.15	31.120	4.81	20.69	708	708	.0000
10	27.89	31.100	5.05							10	23.89	31.100	5.05	20.75	703	702	.0706
20	15.76	31.100	6.48							20	15.76	31.100	6.48	22.83	504	504	.1309
30	15.53	32.420	5.90							30	15.53	32.420	5.90	23.89	402	403	.1763
50	17.78	33.730	4.62							50	17.78	33.730	4.62	25.27	271	272	.2478
70	17.52	34.160	*****														

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KOREA ,TAE RACK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, OCT.17,1980, 08.30 YST, DEPTH 150 , COLOR , TRANS. . .																		
WAVE 1, SWELL , WIND NE 1, BARO 1016, , AIR TEMP. DRY 17.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER P ,																		
0	23.90	34.040	4.73							0	23.90	34.040	4.73	22.97	490	490	.0000	
10	23.50	34.070	4.71							10	23.50	34.070	4.71	23.11	477	477	.0484	
20	23.12	34.050	4.71							20	23.12	34.050	4.71	23.20	468	468	.0957	
30	23.70	34.000	5.39							30	23.70	34.090	5.39	23.06	481	482	.1433	
50	21.45	34.420	4.01							50	21.45	34.411	4.01	23.95	396	398	.2314	
75	19.36	34.710	3.79							75	19.36	34.710	3.79	24.73	322	325	.3218	
100	18.93	34.710	3.91							100	18.93	34.710	3.91	24.84	312	315	.4018	
125	18.58	34.720	3.75							125	18.58	34.720	3.75	24.93	303	306	.4796	
150	18.00	34.770	3.58							150	18.00	34.730	3.88	25.08	288	293	.5547	

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA , TAE RACK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, OCT.17.1980, 06.40 KST, DEPTH 140 , COLOR , TRANS. . .
 WAVE , SWELL , WIND , BARO 1014. , AIR TEMP. DRY 21.1, WET . . , CLOUD. TYPE , AMT , WEATHER P ,
 0 23.90 34.110 6.21 0 23.06 34.110 6.21 23.06 6.21 485 0.000
 10 24.07 34.240 5.92 10 24.07 34.240 5.92 23.07 681 481 0.0483
 20 24.05 34.290 5.40 20 24.05 34.290 5.40 23.11 477 477 0.0953
 30 24.10 34.300 4.21 30 24.10 34.300 4.21 23.10 477 478 0.1441
 50 24.08 34.330 5.28 50 24.08 34.330 5.28 23.13 475 476 0.2396
 75 24.16 34.310 5.20 75 24.16 34.310 5.20 23.09 478 480 0.3592
 100 17.69 34.210 4.01 100 17.69 34.210 4.01 24.76 319 322 0.4596
 125 16.82 34.220 4.31 125 16.82 34.220 4.31 24.98 299 302 0.5377
 135 17.44 34.200 4.60

KOREA , TAE RACK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, OCT.17.1980, 04.40 KST, DEPTH 125 , COLOR , TRANS. . .
 WAVE , SWELL , WIND , BARO 1014. , AIR TEMP. DRY 21.0, WET . . , CLOUD. TYPE , AMT , WEATHER P ,
 0 23.36 33.570 5.58 0 23.36 33.570 5.58 22.77 509 509 0.0000
 10 24.20 33.160 5.69 10 24.20 33.160 5.69 22.21 562 562 0.0536
 20 24.22 33.240 5.50 20 24.22 33.240 5.50 22.27 557 558 0.1097
 30 22.04 33.730 5.80 30 22.04 33.730 5.80 23.26 462 463 0.1607
 50 19.40 37.940 3.19 50 19.40 33.940 3.19 24.13 379 381 0.2451
 75 20.08 34.790 5.01 75 20.08 34.790 5.01 24.60 335 377 0.3349
 100 20.20 34.840 5.40 100 20.20 34.840 5.40 24.61 334 377 0.4193
 120 19.72 34.820 4.60

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, OCT.17.1980, 03.00 KST, DEPTH 105 , COLOR , TRANSP. ,
WAVE , SWELL , WIND , WIND , BARO 1014. , AIR TEMP. DRY 21.2, WET , CLOUD. TYPE , AMT , WEATHER ,

0	24.00	33.650	5.51							0	24.00	33.650	5.51	22.64	521	521	.0000
10	24.03	34.250	7.40							10	24.03	34.250	7.40	23.09	479	479	.0501
20	24.08	34.270	6.11							20	24.08	34.270	6.11	23.09	479	479	.0980
30	24.00	34.200	6.98							30	24.00	34.200	6.98	23.06	482	482	.1461
50	18.90	33.890	5.01							50	18.90	33.890	5.01	24.22	371	372	.2317
75	16.22	33.910	7.90							75	16.22	33.910	3.90	24.88	308	310	.3170
100	15.69	34.030	4.80							100	15.69	34.030	4.80	25.09	288	290	.3922

KOREA , TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, OCT.17.1980, 01.10 KST, DEPTH 100 , COLOR , TRANSP. ,
WAVE , SWELL , WIND , WIND , BARO 1014. , AIR TEMP. DRY 21.4, WET , CLOUD. TYPE , AMT , WEATHER ,

0	21.72	32.520	5.67							0	21.72	32.520	5.67	22.44	541	541	.0000
10	21.97	32.600	6.49							10	21.97	32.600	6.49	22.43	542	542	.0542
20	22.30	32.990	5.51							20	22.30	32.990	5.51	22.63	522	523	.1075
30	21.73	33.010	5.00							30	21.73	33.010	5.00	22.91	495	496	.1585
50	17.22	33.980	3.89							50	17.22	33.980	7.89	24.70	320	326	.2406
75	16.80	33.890	3.54							75	16.80	33.890	3.54	24.73	322	324	.3222
95	15.21	33.770	4.05														

KOREA , TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, OCT.16.1980, 23.00 KST, DEPTH 100 , COLOR , TRANSP. ,
WAVE , SWELL , WIND , WIND , BARO 1014. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT , WEATHER ,

0	21.80	33.160	6.08							0	21.80	33.160	6.08	22.90	497	497	.0000
10	21.70	33.170	5.34							10	21.70	33.170	5.34	22.93	494	494	.0496

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	21.70	33.210	5.25							20	21.70	33.210	5.25	22.96	491	491	.0988
30	20.90	33.700	5.30							30	20.90	33.700	5.30	23.55	434	435	.1452
50	16.60	33.900	3.69							50	16.60	33.900	3.69	24.78	317	318	.2206
75	14.40	33.930	4.29							75	14.40	33.930	4.29	25.30	268	270	.2942
95	15.20	33.950	4.26														

KOREA TAE PAK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, OCT.16.1980, 21.10 KST, DEPTH 100 , COLOR , TRANS. ,
 WAVE , SWELL , WIND , , BARO 1014. , AIR TEMP. DRY 21.2, WET , , CLOUD, TYPE , AMT , WEATHER ,

0	21.70	32.850	5.00							0	21.70	32.850	5.00	22.69	517	516	.0000
10	21.72	32.900	5.18							10	21.72	32.900	5.18	22.72	514	514	.0515
20	21.45	32.260	4.68							20	21.45	32.260	4.68	23.07	480	481	.1013
30	20.80	33.410	4.57							30	20.80	33.410	4.57	23.36	453	453	.1481
50	20.21	32.670	4.31							50	20.21	32.670	4.31	23.71	419	420	.2355
75	15.42	33.980	3.97							75	15.42	33.980	3.97	25.11	286	287	.3241
95	15.35	34.010	3.08														

KOREA TAE PAK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, OCT.16.1980, 19.10 KST, DEPTH 90 , COLOR , TRANS. ,
 WAVE , SWELL , WIND , , BARO 1012. , AIR TEMP. DRY 20.0, WET , , CLOUD, TYPE , AMT , WEATHER ,

0	20.85	32.640	5.99							0	20.85	32.640	5.99	22.76	510	510	.0000
10	20.81	32.780	6.21							10	20.81	32.780	6.21	22.88	499	499	.0505
20	21.90	32.480	6.90							20	21.90	32.480	6.90	23.11	476	477	.0993
30	14.57	33.330	5.39							30	14.57	33.330	5.39	24.80	316	316	.1390
50	14.39	33.710	5.99							50	14.39	33.710	5.99	25.13	284	285	.1992
75	14.46	33.950	5.07							75	14.46	33.950	5.07	25.30	268	270	.2687
95	14.00	34.700	4.60														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-16.0. E, OCT.16.1980, 17.20 KST, DEPTH 90 , COLOR , TRANS. . .																	
WAVE 1, SWELL 1, WIND , BARO 1012.5, AIR TEMP. DRY 20.1, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C .																	
0	20.83	32.300	5.80							0	20.83	32.300	5.80	22.51	534	534	.0000
10	20.53	32.340	6.00							10	20.53	32.340	6.00	22.62	524	524	.0529
20	21.10	32.620	5.55							20	21.10	32.620	5.55	22.68	518	518	.1050
30	14.06	32.400	4.99							30	14.06	32.400	4.99	24.19	374	374	.1497
50	14.29	32.830	6.00							50	14.29	32.830	6.00	24.47	347	348	.2220
75	14.95	33.500	4.04							75	14.95	33.500	4.04	24.85	311	313	.3046
95	14.96	33.860	5.31														
KOREA ,TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, OCT.16.1980, 15.20 KST, DEPTH 80 , COLOR , TRANS. . .																	
WAVE 1, SWELL 1, WIND SW 2, BARO 1012.5, AIR TEMP. DRY 21.0, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	21.60	32.170	6.10							0	21.60	32.170	6.10	22.20	563	563	.0000
10	20.20	32.220	5.92							10	20.20	32.220	5.92	22.62	524	524	.0544
20	19.48	32.520	6.86							20	19.48	32.520	6.86	23.03	484	485	.1049
30	13.48	32.480	5.30							30	13.48	32.480	5.30	25.14	283	284	.1433
50	13.65	32.840	4.82							50	13.65	32.840	4.82	25.38	260	261	.1979
75	17.69	32.970	5.20							75	13.69	32.970	5.20	25.48	251	253	.2623
KOREA ,TAE BAEK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, OCT.16.1980, 13.30 KST, DEPTH 75 , COLOR , TRANS. . .																	
WAVE 1, SWELL 1, WIND SW 3, BARO 1013. , AIR TEMP. DRY 21.7, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C .																	
0	19.70	32.170	6.47							0	19.70	32.170	6.47	22.71	515	515	.0000
10	19.45	32.150	5.58							10	19.45	32.150	5.58	22.76	511	511	.0513
20	19.57	32.200	6.11							20	19.57	32.200	6.11	22.76	510	510	.1024
30	17.72	32.340	4.39							30	13.72	32.340	4.39	24.98	298	298	.1429
50	13.55	33.840	5.20							50	13.55	33.840	5.20	25.40	258	259	.1927
70	17.56	32.630	4.60														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

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KOREA , TAE PAEK SAN , STATION 314-00 , 33-00.0. N, 127-00.0. E, DEC.17.1980, 20.30 KST, DEPTH 155 , COLOR , TRANS. ,
 WAVE NW 4, SWELL NW 1, WIND NW 5, BARO 1019.4 , AIR TEMP. DRY 10.2, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	19.04	34.440	5.80							0	19.04	34.440	5.80	24.60	334	334	.0000
10	19.02	34.420	5.86							10	19.02	34.420	5.86	24.59	335	335	.0335
20	19.04	34.420	5.46							20	19.04	34.420	5.46	24.59	336	336	.0671
30	19.00	34.430	5.41							30	19.00	34.430	5.41	24.61	334	335	.1007
50	19.02	34.450	5.31							50	19.02	34.450	5.31	24.62	333	334	.1677
75	19.05	34.450	5.50							75	19.05	34.450	5.50	24.61	334	336	.2516
100	19.04	34.470	6.10							100	19.04	34.470	6.10	24.63	332	335	.3356
125	18.82	34.480	5.41							125	18.82	34.480	5.41	24.69	326	330	.4188
150	18.48	34.480	5.51							150	18.48	34.480	5.51	24.77	318	322	.5004

KOREA , TAE PAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, DEC.17.1980, 22.10 KST, DEPTH 140 , COLOR , TRANS. ,
 WAVE NW 4, SWELL NW 1, WIND NW 5, BARO 1019.4, AIR TEMP. DRY 10.2, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	18.25	34.410	5.61							0	18.25	34.410	5.61	24.78	318	317	.0000
10	18.45	34.420	5.90							10	18.45	34.420	5.90	24.74	322	322	.0320
20	18.55	34.430	5.60							20	18.55	34.470	5.60	24.72	323	324	.0643
30	18.56	34.430	5.60							30	18.56	34.420	5.40	24.72	323	324	.0967
50	18.53	34.390	5.62							50	18.53	34.390	5.62	24.69	326	327	.1619
75	18.56	34.740	5.41							75	18.56	34.390	5.41	24.69	326	328	.2440
100	18.59	34.370	5.80							100	18.59	34.370	5.80	24.66	329	331	.3266
125	18.54	34.370	5.71							125	18.54	34.370	5.71	24.68	327	331	.4095
150	18.37	34.360	6.52														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	- SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, DEC.17.1980, 23.50 KST, DEPTH 125 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1019.8, AIR TEMP. DRY 10.0, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	17.76	34.260	6.20							0	17.76	34.260	6.20	24.78	317	317	.0000
10	17.71	34.230	6.51							10	17.71	34.230	6.51	24.77	318	318	.0318
20	17.73	34.230	5.32							20	17.73	34.230	5.32	24.77	319	319	.0637
30	17.79	34.230	6.30							30	17.79	34.230	6.30	24.75	320	321	.0957
50	17.80	34.210	5.81							50	17.80	34.210	5.81	24.74	322	323	.1601
75	17.85	34.220	5.41							75	17.85	34.220	5.41	24.73	322	324	.2411
100	17.80	34.220	5.40							100	17.80	34.220	5.40	24.74	321	324	.3272
120	17.44	34.280	5.42														
KOREA , TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, DEC.18.1980, 01.30 KST, DEPTH 105 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1019.8, AIR TEMP. DRY 10.2, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	18.27	34.260	5.26							0	18.27	34.260	5.26	24.66	329	329	.0000
10	18.32	34.240	15.21							10	18.32	34.240	15.21	24.63	332	332	.0311
20	18.36	*****	6.46							20	18.36	*****	6.46	*****	***	***	*****
30	18.40	34.240	6.81							30	18.40	34.240	6.81	24.61	333	334	*****
50	18.44	34.240	6.32							50	18.44	34.240	6.32	24.60	334	336	*****
75	18.34	34.240	5.32							75	18.34	34.240	5.32	24.63	332	334	*****
100	18.16	34.200	5.32							100	18.16	34.200	5.32	24.64	331	333	*****
KOREA , TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, DEC.18.1980, 03.10 KST, DEPTH 110 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1019.8, AIR TEMP. DRY 11.0, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	18.28	34.170	5.60							0	18.28	34.170	5.60	24.59	336	335	.0000

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	DT	SVA	D-DY

10	18.32	34.160	5.50							10	18.32	34.160	5.50	24.57	337	337	.0377
20	18.35	34.160	5.05							20	18.35	34.160	5.05				.0376
30	18.38	34.170	5.23							30	18.38	34.170	5.23	24.56	336	339	.1017
50	18.36	34.170	5.30							50	18.36	34.170	5.30	24.57	336	339	.1601
75	18.40	34.210	5.54							75	18.40	34.210	5.54	24.59	336	338	.2538
100	18.43	34.200	5.61							100	18.43	34.200	5.61	24.57	337	340	.3386

KOREA ,TAE BAK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, DEC.18.1980, 04.50 KST, DEPTH 100 , COLOR , TRANS. ,
WAVE NW 4, SWELL NW 1, WIND NW 4, BARO 1018. , AIR TEMP. DRY 10.0, WFT . , CLOUD. TYPE , AMT , WEATHER C ,

0	17.36	33.890	5.53							0	17.36	33.890	5.53	24.60	335	335	.0060
10	17.40	33.910	5.40							10	17.40	33.910	5.40	24.60	334	334	.0375
20	17.45	*****	5.62							20	17.45	*****	5.62	*****	***	***	*****
30	17.52	33.920	5.20							30	17.52	33.920	5.20	24.58	326	327	*****
50	17.50	33.920	5.60							50	17.50	33.920	5.60	24.59	336	337	*****
75	18.00	34.030	4.30							75	18.00	34.030	4.30	24.84	312	314	*****
95	18.04	34.120	4.13														

KOREA ,TAE BAK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, DEC.18.1980, 06.30 KST, DEPTH 90 , COLOR , TRANS. ,
WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 1018.5, AIR TEMP. DRY 9.0, WFT . , CLOUD. TYPE , AMT , WEATHER C ,

0	17.64	33.950	5.32							0	17.64	33.950	5.32	24.58	337	337	.0000
10	17.70	33.910	5.51							10	17.70	33.910	5.51	24.51	347	343	.0340
20	17.85	33.910	5.70							20	17.85	33.910	5.70	24.49	345	345	.0685
30	17.78	33.910	5.41							30	17.78	33.910	5.41	24.51	347	344	.1070
50	17.80	33.940	5.80							50	17.80	33.920	5.80	24.51	343	344	.1718
75	17.71	33.940	5.62							75	17.71	33.940	5.62	24.55	339	341	.2576
95	17.78	*****	5.41														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D DY
KOREA ,TAE PAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, DEC.18.1980, 06.10 KST, DEPTH 90 , COLOR , TRANS. ,																	
WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 1019. , AIR TEMP. DRY 10.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	17.68	33.790	5.33							0	17.68	33.790	5.33	24.44	349	349	.0000
10	17.80	33.750	5.38							10	17.80	33.750	5.38	24.38	355	355	.0353
20	17.84	33.750	5.92							20	17.84	33.750	5.92	24.37	356	356	.0709
30	17.99	33.830	5.81							30	17.99	33.830	5.81	24.40	354	354	.1065
50	17.99	33.910	6.23							50	17.99	33.910	6.23	24.46	348	349	.1769
75	17.85	33.920	6.02							75	17.85	33.920	6.02	24.50	344	346	.2639
85	17.49	33.970	5.31														
KOREA ,TAE PAEK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, DEC.18.1980, 09.50 KST, DEPTH 100 , COLOR , TRANS. ,																	
WAVE NW 5, SWELL NW 2, WIND NW 5, BARO 1019. , AIR TEMP. DRY 10.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	17.80	*****	5.70							0	17.80	*****	5.70	*****	***	***	.0000
10	17.89	33.900	6.53							10	17.89	33.900	6.53	24.48	346	346	*****
20	17.92	33.890	6.23							20	17.92	33.890	6.23	24.46	348	348	*****
30	17.88	33.850	6.30							30	17.88	33.850	6.30	24.44	350	350	*****
50	17.70	33.900	6.41							50	17.70	33.900	6.41	24.52	342	343	*****
75	17.60	33.910	6.00							75	17.60	33.910	6.00	24.56	339	341	*****
95	17.53	33.930	5.50														
KOREA ,TAE PAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, DEC.18.1980, 11.30 KST, DEPTH 80 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 1, WIND NW 5, BARO 1018. , AIR TEMP. DRY 11.8, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	17.35	33.810	5.61							0	17.35	33.810	5.61	24.54	340	340	.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY

10	17.40	33.810	6.12							10	17.40	33.810	6.12	24.53	342	342	.0341
20	17.42	33.790	5.71							20	17.42	33.780	5.71	24.50	344	344	.0685
30	17.43	33.800	6.02							30	17.43	33.800	6.02	24.51	343	344	.1029
50	17.48	33.830	6.14							50	17.48	33.830	6.14	24.52	342	343	.1717
75	17.30	33.860	5.71							75	17.30	33.860	5.71	24.59	336	338	.2569

KOREA ,TAE BAK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, DEC.18.1980, 13.10 KST, DEPTH 75 , COLOR , TRANS. . .
 WAVE NW 4, SWELL NW 1, WIND NW 5, BARO 1018. , AIR TEMP. DRY 10.2, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	16.64	33.540	5.83							0	16.64	33.540	5.83	24.50	344	344	.0000
10	16.74	33.510	5.67							10	16.74	33.510	5.67	24.45	349	349	.0347
20	16.75	33.510	5.80							20	16.75	33.510	5.80	24.45	349	349	.0696
30	16.79	33.530	6.34							30	16.79	33.530	6.34	24.46	343	349	.1045
50	16.84	33.530	5.86							50	16.84	33.530	5.86	24.44	349	350	.1746
70	16.83	33.530	6.13														

서 해 해 양 조 사 성 적

OCEANOGRAPHIC DATA : WESTERN WATERS

1980

307선 해양관측성적
Oceanographic Data. Line 307

Oceanographic Data: Line 001																	
OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	18.5	35.2	4.5	1013.2	10.2	0.15	0.45	35.1	8.1	10	18.5	35.2	4.5	1013.2	0.1	0.5	0.1
20	17.8	35.1	4.2	1013.5	10.1	0.14	0.44	35.0	8.0	20	17.8	35.1	4.2	1013.5	0.1	0.5	0.1
30	17.2	35.0	4.0	1013.8	10.0	0.13	0.43	34.9	7.9	30	17.2	35.0	4.0	1013.8	0.1	0.5	0.1
40	16.5	34.9	3.8	1014.1	9.9	0.12	0.42	34.8	7.8	40	16.5	34.9	3.8	1014.1	0.1	0.5	0.1
50	15.8	34.8	3.5	1014.4	9.8	0.11	0.41	34.7	7.7	50	15.8	34.8	3.5	1014.4	0.1	0.5	0.1
60	15.1	34.7	3.2	1014.7	9.7	0.10	0.40	34.6	7.6	60	15.1	34.7	3.2	1014.7	0.1	0.5	0.1
70	14.4	34.6	3.0	1015.0	9.6	0.09	0.39	34.5	7.5	70	14.4	34.6	3.0	1015.0	0.1	0.5	0.1
80	13.7	34.5	2.8	1015.3	9.5	0.08	0.38	34.4	7.4	80	13.7	34.5	2.8	1015.3	0.1	0.5	0.1
90	13.0	34.4	2.5	1015.6	9.4	0.07	0.37	34.3	7.3	90	13.0	34.4	2.5	1015.6	0.1	0.5	0.1
100	12.3	34.3	2.2	1015.9	9.3	0.06	0.36	34.2	7.2	100	12.3	34.3	2.2	1015.9	0.1	0.5	0.1
110	11.6	34.2	2.0	1016.2	9.2	0.05	0.35	34.1	7.1	110	11.6	34.2	2.0	1016.2	0.1	0.5	0.1
120	10.9	34.1	1.8	1016.5	9.1	0.04	0.34	34.0	7.0	120	10.9	34.1	1.8	1016.5	0.1	0.5	0.1
130	10.2	34.0	1.5	1016.8	9.0	0.03	0.33	33.9	6.9	130	10.2	34.0	1.5	1016.8	0.1	0.5	0.1
140	9.5	33.9	1.2	1017.1	8.9	0.02	0.32	33.8	6.8	140	9.5	33.9	1.2	1017.1	0.1	0.5	0.1
150	8.8	33.8	1.0	1017.4	8.8	0.01	0.31	33.7	6.7	150	8.8	33.8	1.0	1017.4	0.1	0.5	0.1
160	8.1	33.7	0.8	1017.7	8.7	0.00	0.30	33.6	6.6	160	8.1	33.7	0.8	1017.7	0.1	0.5	0.1
170	7.4	33.6	0.5	1018.0	8.6	0.00	0.29	33.5	6.5	170	7.4	33.6	0.5	1018.0	0.1	0.5	0.1
180	6.7	33.5	0.2	1018.3	8.5	0.00	0.28	33.4	6.4	180	6.7	33.5	0.2	1018.3	0.1	0.5	0.1
190	6.0	33.4	0.0	1018.6	8.4	0.00	0.27	33.3	6.3	190	6.0	33.4	0.0	1018.6	0.1	0.5	0.1
200	5.3	33.3	0.0	1018.9	8.3	0.00	0.26	33.2	6.2	200	5.3	33.3	0.0	1018.9	0.1	0.5	0.1
210	4.6	33.2	0.0	1019.2	8.2	0.00	0.25	33.1	6.1	210	4.6	33.2	0.0	1019.2	0.1	0.5	0.1
220	3.9	33.1	0.0	1019.5	8.1	0.00	0.24	33.0	6.0	220	3.9	33.1	0.0	1019.5	0.1	0.5	0.1
230	3.2	33.0	0.0	1019.8	8.0	0.00	0.23	32.9	5.9	230	3.2	33.0	0.0	1019.8	0.1	0.5	0.1
240	2.5	32.9	0.0	1020.1	7.9	0.00	0.22	32.8	5.8	240	2.5	32.9	0.0	1020.1	0.1	0.5	0.1
250	1.8	32.8	0.0	1020.4	7.8	0.00	0.21	32.7	5.7	250	1.8	32.8	0.0	1020.4	0.1	0.5	0.1

2월 (February)

KOREA
STATION 307-07, 36-56.5. N, 126-00.0. E, FEB. 12, 1980. 06.00 YST, DEPTH 37, COLOR 7, TPANS. 4.0.
H, AN RA SAK
4. SWELL 3, WIND NW 3, BARO 1031.4, AIR TEMP. DRY °, WET °, CLOUD. TYPE CI, AMT 2, WEATHER P.

	0	2.62	32.590	7.27	0	2.62	32.590	7.27	26.02	200	199	.0000
10	10	2.82	32.650	7.37	10	2.82	32.650	7.37	26.05	197	196	.0198
20	20	2.72	32.630	7.42	20	2.72	32.680	7.42	26.08	194	193	.0394
30	30	2.81	32.680	7.58	30	2.78	32.680	7.53	26.08	194	194	.0588

KOREA
HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, FEB. 14, 1980, 11.20 PST, DEPTH 34 , COLOR 7, TRANS. 3.0,
4. SWELL 3, WIND NW 3, BARO 1034. , AIR TEMP. DRY .°F, WFT . , CLOUD. TYPE AS, AMT 7, HEATHEF BC,

	0	2.83	32.630	7.58	0	2.83	32.630	7.58	26.03	193	198	.0000
	10	2.83	32.700	7.47	10	2.83	32.700	7.47	26.09	193	193	.0196
	20	2.84	32.700	7.37	20	2.84	32.700	7.37	26.09	193	193	.0389
	30	2.98	32.720	7.27	30	2.98	32.720	7.27	26.09	193	192	.0582

KOREA
STATION 307-05, 36-55.5 N, 125-25.0 E, FEB. 14, 1980, 13-00 KST, DEPTH 50, COLOR 6, TRANSP. 4.0,
WAVE
4. SWELL 3. WIND NW 3. BARO 1034. AIR TEMP. DRY °F. WET °F. CLOUD. TYPE AS, AMT 7, WEATHER BC,

0	3.20	32.790	7.29	0	3.20	32.790	7.29	26.13	189	189	.0000
10	7.72	37.830	7.22	10	3.72	37.830	7.22	26.11	191	100	.0190
20	7.79	37.850	7.17	20	3.79	37.850	7.17	26.12	190	100	.0381
30	7.72	37.860	7.17	30	3.72	37.860	7.17	26.14	188	188	.0570
40	7.80	37.880	7.32								

OBSERVED																	INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								
KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-12.5. E, FEB.14.1980, 14.45 PST, DEPTH 50 , COLOR 6, TRANS. 4.0, WAVE 4, SWELL 3, WIND NW 3, BARO 1034.5, AIR TEMP. DRY 1.3, WET , CLOUD. TYPE AS, AMT 7, WEATHER PC,																								
0	3.65	32.740	7.37						0	3.65	32.740	7.37	26.05	197	197	.0000								
10	3.68	32.770	7.42						10	3.68	32.770	7.42	26.07	195	195	.0196								
20	3.60	32.810	7.27						20	3.60	32.810	7.27	26.11	191	191	.0399								
30	3.68	32.830	7.27						30	3.68	32.830	7.27	26.12	190	190	.0581								
50	3.72	32.850	6.12						50	3.72	32.850	6.12	26.13	189	189	.0961								
55	3.70	32.850	7.27																					
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, FEB.14.1980, 16.30 PST, DEPTH 50 , COLOR 7, TRANS. 4.0, WAVE 4, SWELL 3, WIND NW 3, BARO 1032.5, AIR TEMP. DRY 1.2, WET , CLOUD. TYPE AS, AMT 7, WEATHER PC,																								
0	3.48	32.740	7.27						0	3.48	32.740	7.27	26.06	195	195	.0000								
10	3.50	32.770	7.58						10	3.50	32.770	7.58	26.09	193	193	.01								
20	4.48	32.770	7.27						20	4.48	32.770	7.27	25.99	203	202	.0303								
30	3.30	32.760	7.12						30	3.30	32.760	7.12	26.10	192	192	.0591								
55	3.33	32.790	7.12						50	3.32	32.784	7.12	26.11	191	191	.0974								
KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, FEB.14.1980, 16.20 PST, DEPTH 61 , COLOR 7, TRANS. 4.0, WAVE 4, SWELL 3, WIND NW 3, BARO 1033. , AIR TEMP. DRY , WET , CLOUD. TYPE , AMT , WEATHER ,																								
0	3.03	32.680	7.58						0	3.03	32.680	7.58	26.06	196	196	.0000								
10	3.10	32.720	7.58						10	3.10	32.720	7.58	26.08	194	193	.0195								
20	3.02	32.760	7.17						20	3.02	32.760	7.17	26.12	190	190	.0307								
30	3.18	32.790	7.48						30	3.18	32.790	7.48	26.13	189	189	.0577								
50	3.22	32.810	7.18						50	3.22	32.810	7.18	26.14	188	188	.0955								
55	3.22	32.810	7.48																					

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 307-00 , 36-55.5. N, 124-34.8. E, FEB.14,1980, 20.05 KST, DEPTH 65 , COLOR , TRANS. ,																		
WAVE	4, SWELL	3, WIND NW	3, BARO 1033. ,	AIR TEMP. DRY - .5, WET	0	3.18	72.660	7.58										
0	3.18	32.660	7.58							0	3.18	72.660	7.58	26.03	199	199	.0000	
10	3.17	32.680	7.53							10	3.17	72.680	7.53	26.04	197	197	.0198	
20	3.14	32.720	7.51							20	3.14	32.720	7.51	26.08	194	194	.0394	
30	3.23	32.770	7.49							30	3.23	32.770	7.49	26.11	191	191	.0587	
50	3.27	32.790	7.40							50	3.27	32.790	7.40	26.12	190	190	.0968	
60	3.30	32.830	7.58															
KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. F, FEB.14,1980, 21.55 KST, DEPTH 73 , COLOR , TRANS. ,																		
WAVE	4, SWELL	3, WIND NW	3, BARO 1032.5, AIP TEMP. DRY - .8, WET	0	3.71	32.740	7.47											
0	3.71	32.740	7.47							0	3.71	32.740	7.47	26.04	197	197	.0000	
10	3.85	32.760	7.40							10	3.85	32.760	7.40	26.04	197	197	.0198	
20	3.83	32.760	7.53							20	3.83	32.760	7.53	26.05	197	197	.0395	
30	4.00	32.770	7.39							30	4.00	32.770	7.39	26.04	198	198	.0593	
50	4.08	32.760	7.31							50	4.08	32.760	7.31	26.02	199	199	.0991	
70	4.09	32.770	7.27															
4월(April)																		
KOREA , HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, APR.10,1980, 13.50 KST, DEPTH 38 , COLOR 7, TRANS. 2.0.																		
WAVE	2, SWELL	1, WIND SW	1, BARO 1025. ,	AIR TEMP. DRY 9.3, WET	0	5.42	32.570	7.17										
0	5.42	32.570	7.17							0	5.42	32.570	7.17	25.73	227	227	.0000	
10	4.81	32.590	7.22							10	4.81	32.590	7.22	25.81	219	219	.0274	
20	4.78	32.650	7.12							20	4.78	32.650	7.12	25.86	215	214	.0441	
30	4.70	32.630	7.09							30	4.73	32.637	7.10	25.86	215	215	.0656	

4 월(April)

KOREA , HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, APR.10,1980, 13.50 KST, DEPTH 38 , COLOR 7, TRANS. 2.0.																	
WAVE		2, SWELL	1, WIND SW	1, BARO 1025. ,	AIR TEMP. DRY 9.3, WET	0	5.42	32.570	7.17	25.73	227	227	.0000				
10		4.81	32.590	7.22		10	4.81	32.590	7.22	25.81	219	219	.0274				
20		4.78	32.650	7.12		20	4.78	32.650	7.12	25.86	215	214	.0441				
35		4.70	32.630	7.09		30	4.73	32.637	7.10	25.86	215	215	.0656				

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY								
KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, APR. 10. 1980, 16.30 KST, DEPTH 34 , COLOR 6, TRANS. 5.5, WAVE 2, SWELL 1, WIND S 2, BARO 1023.5, AIR TEMP. DRY 8.5, WET . , CLOUD. TYPE AS, AMT 4, WEATHER CC,																									
0	5.42	32.590	7.37							0	5.42	32.590	7.37	25.74	226	226	.0000								
10	5.18	32.630	7.22							10	5.18	32.630	7.22	25.80	220	220	.0223								
20	5.13	32.630	7.07							20	5.13	32.630	7.07	25.81	220	220	.0444								
30	5.00	32.860	7.12							30	5.00	32.860	7.12	26.00	201	201	.0655								
KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, APR. 10. 1980, 18.05 KST, DEPTH 51 , COLOR 6, TRANS. 7.5, WAVE 2, SWELL 1, WIND SE 2, BARO 1023.8, AIR TEMP. DRY 9.3, WET . , CLOUD. TYPE AS, AMT 8, WEATHER C ,																									
0	6.00	32.760	7.07							0	6.00	32.760	7.07	25.81	220	219	.0000								
10	5.60	32.770	7.17							10	5.60	32.770	7.17	25.86	214	214	.0217								
20	5.62	32.790	7.12							20	5.62	32.790	7.12	25.88	213	213	.0431								
30	4.92	32.900	7.07							30	4.92	32.900	7.07	26.04	197	197	.0637								
48	4.80	32.940	7.07																						
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, APR. 10. 1980, 19.50 KST, DEPTH 58 , COLOR , TRANS. , WAVE 1, SWELL 1, WIND SE 1, BARO 1023.5, AIR TEMP. DRY 8.5, WET . , CLOUD. TYPE , AMT , WEATHER ,																									
0	6.62	32.790	7.27							0	6.62	32.790	7.27	25.75	225	225	.0000								
10	5.40	32.770	7.12							10	5.40	32.770	7.12	25.89	212	212	.0219								
20	5.32	32.770	7.17							20	5.32	32.770	7.17	25.90	211	211	.0431								
30	4.91	32.860	7.10							30	4.91	32.860	7.10	26.03	199	199	.0636								
50	4.99	32.970	7.07							50	4.99	32.970	7.07	26.09	193	193	.1029								
55	4.83	33.010	7.06																						

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, APR.10.1980, 21.30 KST, DEPTH 58 , COLOR , TRANS. ,																		
WAVE 1, SUELL 1, WIND SE 1, BARO 1023. , AIR TEMP. DRY 7.5, WET , , CLOUD. TYPE , AMT , WEATHEP ,																		
0	7.18	32.950	6.47							0	7.18	32.950	7.47	25.80	220	220	.0000	
10	6.00	32.950	6.97							10	6.00	32.950	6.97	25.96	205	205	.0213	
20	5.80	32.950	7.27							20	5.60	32.950	7.27	25.98	203	203	.0418	
30	5.78	32.970	7.07							30	5.78	32.970	7.07	26.00	201	201	.0621	
55	5.23	37.030	7.02							50	5.34	33.018	7.03	26.09	193	193	.1016	
KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, APP.10.1980, 23.20 KST, DEPTH 64 , COLOR , TRANS. ,																		
WAVE 1, SUELL 1, WIND SE 1, BARO 1024. , AIR TEMP. DRY 7.4, WET , , CLOUD. TYPE , AMT , WEATHEP ,																		
0	6.90	32.950	7.07							0	6.90	32.950	7.07	25.84	216	216	.0000	
10	6.12	32.970	6.97							10	6.12	32.970	6.97	25.96	205	205	.0211	
20	5.94	32.970	6.87							20	5.94	32.970	6.87	25.98	203	203	.0416	
30	5.88	32.970	6.67							30	5.88	32.970	6.67	25.99	203	203	.0619	
50	5.38	37.040	6.67							50	5.38	33.040	6.67	26.10	192	192	.1015	
60	5.23	37.040	6.77															
KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, APR.11.1980, 01.05 KST, DEPTH 68 , COLOR , TRANS. ,																		
WAVE 1, SUELL 1, WIND SE 1, BARO 1023.5, AIR TEMP. DRY 7.2, WET , , CLOUD. TYPE , AMT , WEATHEP ,																		
0	7.40	32.860	6.82							0	7.40	32.860	6.82	25.70	230	229	.0000	
10	6.78	37.010	6.87							10	6.78	33.010	6.87	25.90	210	210	.0220	
20	6.34	37.030	6.87							20	6.34	33.030	6.87	25.98	204	203	.0428	
30	6.24	37.010	6.77							30	6.24	33.010	6.77	25.97	204	204	.0632	
50	5.55	37.010	6.52							50	5.55	33.010	6.52	26.06	196	196	.1033	
65	5.70	37.040	6.57															

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, APR. 11, 1980, 02.55 KST, DEPTH 75 , COLOR , TRANS. ,																		
WAVE	1, SWELL	1, WIND SE	1, BARO 1023. , AIR TEMP. 7.0, WET															
0	7.22	33.060	7.07							0	7.22	33.060	7.07	25.88	212	212	.0000	
10	6.42	33.060	6.87							10	6.42	33.060	6.87	25.99	202	202	.0208	
20	6.40	33.080	6.87							20	6.40	33.080	6.87	26.01	201	200	.0409	
30	6.35	33.040	6.87							30	6.35	33.040	6.87	25.98	203	203	.0612	
50	5.83	33.170	6.57							50	5.83	33.170	6.57	26.15	187	187	.1003	
70	5.88	33.190	6.47															

6 월 (June)

KOREA , HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, JUN. 9, 1980, 19.05 KST, DEPTH 38 , COLOR 6, TRANS. 6.5,																	
WAVE	2, SWELL	1, WIND S	2, BARO 1013.1, AIR TEMP. DRY 15.8, WET														
0	14.32	32.430	6.08							0	14.32	32.430	6.08	24.16	377	376	.0000
10	12.95	32.290	6.19							10	12.95	32.290	6.19	24.33	361	360	.0369
20	12.39	32.320	6.03							20	12.39	32.320	6.03	24.46	348	348	.0724
35	12.36	32.340	6.19							30	12.37	32.333	6.14	24.47	347	347	.1072

KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, JUN. 9, 1980, 21.45 KST, DEPTH 34 , COLOR , TRANS. ,																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1013.3, AIR TEMP. DRY 15.7, WET , CLOUD, TYPE , AMT , WEATHER F ,																	
0	14.59	32.390	5.88	0	14.59	32.390	5.88	24.07	385	385	.0000						
10	17.71	32.410	6.19	10	13.71	32.410	6.19	24.27	366	366	.0376						
20	17.39	32.390	6.08	20	13.39	32.390	6.08	24.32	361	362	.0740						
30	17.55	32.760	5.98	30	12.55	32.360	5.98	24.46	348	348	.1096						

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, JUN. 9. 1980, 23.25 KST, DEPTH 54 , COLOR , TPANS. , ,																	
WAVE 1, SWELL 1, WIND SW 2, BARO 1013.3, AIR TEMP. DRY 15.5, WET																	
0	14.31	32.410	5.82							0	14.31	32.410	5.82	24.15	378	378	.0000
10	17.71	32.390	5.93							10	13.71	32.390	5.93	24.25	368	368	.0373
20	17.09	32.380	5.90							20	12.09	32.380	5.90	24.56	338	338	.0727
30	10.91	32.410	5.82							30	10.91	32.410	5.82	24.80	316	316	.1054
50	10.55	32.410	6.10							50	10.55	32.410	6.10	24.86	310	310	.1681
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, JUN. 10. 1980, 01.10 KST, DEPTH 60 , COLOR , TPANS. , ,																	
WAVE 1, SWELL 1, WIND SW 2, BARO 1013.5, AIR TEMP. DRY 15.4, WET																	
0	14.75	32.450	5.67							0	14.75	32.450	5.67	24.08	384	383	.0000
10	17.72	32.470	5.77							10	13.72	32.470	5.77	24.31	362	362	.0373
20	10.15	32.500	6.49							20	10.15	32.500	6.49	25.00	297	297	.0703
30	9.19	32.540	5.88							30	9.19	32.540	5.88	25.19	279	279	.0991
50	8.19	32.590	6.39							50	8.19	32.590	6.39	25.38	261	261	.1532
55	7.72	32.630	5.88														
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, JUN. 10. 1980, 02.55 KST, DEPTH 58 , COLOR , TPANS. , ,																	
WAVE 1, SWELL 1, WIND S 1, BARO 1013.5, AIR TEMP. DRY 15.4, WET																	
0	14.64	32.540	5.72							0	14.64	32.540	5.72	24.18	375	375	.0000
10	14.05	32.540	5.88							10	14.05	32.540	5.88	24.30	363	363	.0369
20	10.98	32.570	6.60							20	10.98	32.570	6.60	24.91	305	305	.0704
30	7.21	32.660	6.29							30	7.21	32.660	6.29	25.57	242	242	.0978
55	6.20	32.700	6.10							50	6.96	32.692	6.21	25.63	237	237	.1458

OBSERVED																	INTERPOLATED				CALCULATED												
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	DT	SVA	DDY																
KOREA																		STATION 307-02, 36-55.5. N, 124-47.5. E, JUN. 10. 1980, 04.45 KST, DEPTH 62, COLOR, TRANS.															
WAVE																		1, SWELL				1, WIND S				1, BARO 1013.5, AIR TEMP. DRY				14.0, WET			
0	14.61	32.540	5.69							0	14.61	32.540	5.69	24.18	374	374	.0000																
10	14.02	32.520	5.82							10	14.02	32.520	5.82	24.29	364	364	.0370																
20	10.15	32.560	6.98							20	10.15	32.560	6.98	25.05	292	292	.0698																
30	6.52	32.810	6.19							30	6.52	32.810	6.19	25.78	222	222	.0956																
50	6.49	32.800	5.93							50	6.49	32.860	5.93	25.82	218	218	.1398																
58	6.32	32.900	5.98																														
KOREA																		STATION 307-02, 36-55.5. N, 124-34.8. E, JUN. 10. 1980, 06.30 KST, DEPTH 67, COLOR 4, TRANS. 10.0,															
WAVE																		1, SWELL				1, WIND S				1, BARO 1013.5, AIR TEMP. DRY				14.4, WET			
0	14.19	32.590	5.67							0	14.19	32.590	5.67	24.31	362	362	.0000																
10	13.72	32.520	5.98							10	13.72	32.520	5.98	24.35	358	358	.0361																
20	10.10	32.830	6.19							20	10.10	32.830	6.19	25.26	271	271	.0676																
30	7.58	32.880	6.39							30	7.58	32.880	6.39	25.69	231	231	.0927																
50	6.78	32.940	5.77							50	6.78	32.940	5.77	25.85	216	216	.1375																
64	6.32	32.940	5.88																														
KOREA																		STATION 307-10, 36-55.5. N, 124-22.3. E, JUN. 10. 1980, 08.20 KST, DEPTH 76, COLOR 4, TRANS. 11.0,															
WAVE																		1, SWELL				1, WIND S				1, BARO 1013.5, AIR TEMP. DRY				14.6, WET			
0	14.13	32.610	5.57							0	14.13	32.610	5.57	24.34	360	359	.0000																
10	13.67	32.700	5.82							10	13.67	32.700	5.82	24.50	344	344	.0352																
20	10.05	32.540	6.39							20	10.05	32.540	6.39	25.05	292	292	.0671																
30	7.54	32.830	6.44							30	7.54	32.830	6.44	25.66	234	234	.0934																
50	6.75	32.900	5.88							50	6.75	32.900	5.88	25.82	218	219	.1388																
77	6.28	32.940	5.98																														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

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KOREA , HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, AUG. 6.1980, 18.20 KST, DEPTH 37 , COLOR 5, TRANS. 6.0,
 WAVE 2, SWELL 1, WIND NE 3, BARO 1009.2, AIP TEMP. DRY 22.6, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 21.85 30.680 5.11 0 21.85 30.680 5.11 21.01 678 678 .0000
 10 20.35 30.880 5.71 10 20.35 30.880 5.71 21.56 625 625 .0652
 20 19.05 31.350 6.02 20 19.05 31.350 6.02 22.25 559 559 .1244
 34 16.61 31.920 5.84 30 17.31 31.757 5.89 22.98 489 489 .1769

KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, AUG. 6.1980, 21.00 KST, DEPTH 35 , COLOR , TRANS. . .
 WAVE 2, SWELL 1, WIND SE 3, BARO 1009. , AIP TEMP. DRY 22.5, WET . , CLOUD. TYPE , AMT , WEATHER F ,
 0 22.59 31.760 5.20 0 22.59 31.760 5.20 21.62 619 619 .0000
 10 19.85 32.760 5.86 10 19.85 32.360 5.86 22.21 505 505 .0563
 20 16.39 32.410 5.26 20 16.39 32.410 5.26 23.69 421 421 .1026
 32 17.65 32.010 5.56 30 14.11 32.910 5.51 24.57 357 357 .1406

KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, AUG. 6.1980, 22.40 KST, DEPTH 54 , COLOR , TRANS. . .
 WAVE 2, SWELL 1, WIND SE 3, BARO 1009. , AIP TEMP. DRY 22.0, WET . , CLOUD. TYPE , AMT , WEATHER P ,
 0 21.72 32.320 5.09 0 21.72 32.320 5.09 22.28 556 556 .0000
 10 20.51 32.410 5.61 10 20.51 32.410 5.61 22.68 518 518 .0537
 20 15.61 32.010 5.97 20 15.61 33.010 5.97 24.33 361 361 .0977
 30 12.79 32.900 5.82 30 12.79 32.900 5.82 24.83 313 313 .1314
 50 12.00 32.850 5.71 50 12.00 32.850 5.71 24.94 302 302 .1931

OBSERVED										INTERPOLATED				CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, AUG. 7, 1980, 00.25 PST, DEPTH 61 , COLOR , TRANS. ,																		
WAVE	1, SWELL	1, WIND NE	3, EARO 100%,	AIR TEMP. DRY	21.7, WET	, CLOUD. TYPE , AMT , WEATHER ,												
0	23.32	32.210	5.10							0	23.32	32.210	5.10	21.75	606	606	.0000	
10	21.22	32.160	5.45							10	23.22	32.160	5.45	21.74	607	607	.0607	
20	17.61	32.540	5.91							20	17.61	32.540	5.91	23.51	439	439	.1131	
30	9.38	32.760	6.02							30	9.38	32.760	6.02	25.33	265	266	.1484	
50	9.00	32.790	6.00							50	9.00	32.790	6.00	25.41	257	258	.2008	
58	9.05	32.810	5.61															
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, AUG. 7, 1980, 02.10 PST, DEPTH 60 , COLOR , TRANS. ,																		
WAVE	1, SWELL	1, WIND NE	2, EARO 100%,	AIP TEMP. DRY	21.0, WET	, CLOUD. TYPE , AMT , WEATHER ,												
0	23.41	32.250	5.12							0	23.41	32.250	5.12	21.76	606	606	.0000	
10	23.39	32.180	5.09							10	23.39	32.180	5.09	21.71	611	611	.0609	
20	20.00	32.380	5.61							20	20.00	32.380	5.61	22.79	507	508	.1168	
30	9.05	32.050	6.12							30	9.05	32.950	6.12	25.53	246	246	.1546	
55	9.04	32.970	5.71							50	9.04	32.966	5.79	25.54	245	245	.2039	
KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, AUG. 7, 1980, 04.00 PST, DEPTH 64 , COLOR , TRANS. ,																		
WAVE	1, SWELL	1, WIND NE	2, EARO 100%,	AIP TEMP. DRY	20.7, WET	, CLOUD. TYPE , AMT , WEATHER ,												
0	27.25	32.290	5.20							0	23.25	32.290	5.20	21.83	599	598	.0000	
10	27.29	32.250	5.31							10	23.29	32.250	5.31	21.79	603	603	.0601	
20	14.49	32.790	6.52							20	14.49	32.790	6.52	24.40	354	354	.1080	
30	8.35	32.850	6.12							30	8.35	32.850	6.12	25.56	243	244	.1370	
50	8.30	32.810	6.17							50	8.32	32.810	6.17	25.53	244	244	.1370	
60	8.19	32.850	6.12															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 307-00 , 36-55.5. N, 124-34.8. E, AUG. 7.1980, 03.45 KST, DEPTH 67 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NE 3, BARO 1005.1, AIR TEMP. DRY 10.9, WET , , CLOUD. TYPE NS, AMT 10, WEATHER F ,																	
0	27.25	32.300	5.05							0	23.25	32.300	5.05	21.84	598	568	.0000
10	27.39	32.230	5.10							10	23.39	32.230	5.10	21.75	607	607	.0603
20	10.70	32.090	5.87							20	10.70	32.090	5.87	25.29	269	269	.1042
30	8.40	32.630	5.92							30	8.40	32.630	5.92	25.38	261	261	.1307
50	8.29	33.210	6.02							50	8.29	33.210	6.02	25.85	216	216	.1785
64	8.30	32.770	6.12														
KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, AUG. 7.1980, 07.35 KST, DEPTH 75 , COLOR 3, TRANS. 14.0,																	
WAVE 2, SWELL 1, WIND NE 3, BARO 1009.3, AIR TEMP. DRY 10.4, WET , , CLOUD. TYPE NS, AMT 10, WEATHER F ,																	
0	23.42	32.300	5.10							0	23.42	32.300	5.10	21.79	603	602	.0000
10	23.51	32.590	5.31							10	23.51	32.590	5.31	21.99	584	584	.0594
20	11.42	32.940	6.63							20	11.42	32.940	6.63	25.12	285	285	.1029
30	8.09	32.860	6.02							30	8.09	32.860	6.02	25.60	239	239	.1292
50	7.99	32.860	5.93							50	7.99	32.860	5.93	25.62	238	278	.1770
72	7.85	32.860	5.81														
0월(October)																	
KOREA , HAN RA SAN , STATION 307-01 , 36-56.5. N, 126-00.0. E, OCT. 7.1980, 15.35 KST, DEPTH 38 , COLOR 4, TRANS. 6.0,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1015. , AIR TEMP. DRY 10.8, WET , , CLOUD. TYPE AS, AMT 3, WEATHER BC,																	
0	18.74	32.390	5.49							0	18.74	32.390	5.49	23.12	476	476	.0000
10	18.11	32.500	5.33							10	18.21	32.500	5.33	23.33	456	456	.0476
20	18.19	32.520	5.57							20	18.19	32.520	5.57	27.35	454	454	.0921
35	18.09	32.450	5.33							30	18.12	32.473	5.41	23.33	456	456	.1377

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SWA	D-DY	
KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-17.7. E, OCT. 7, 1980, 18.20 KST, DEPTH 37 , COLOR , TRANS. . .																		
WAVE 2, SWELL 1, WIND SW 3, BARO 1014.5, AIR TEMP. DRY 19.0, WET . , CLOUD. TYPE , AMT , WEATHER FC. .																		
0	19.15	32.250	5.23							0	19.15	32.250	5.23	22.01	496	496	.0000	
10	18.71	32.480	6.09							10	18.71	32.480	6.09	23.19	469	469	.0483	
20	18.65	32.500	5.84							20	18.65	32.500	5.84	23.22	466	466	.0951	
30	18.51	32.940	5.94							30	18.55	32.914	5.91	23.49	441	441	.1405	
KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, OCT. 7, 1980, 20.00 KST, DEPTH 54 , COLOR , TRANS. . .																		
WAVE 2, SWELL 1, WIND SW 3, BARO 1014. , AIR TEMP. DRY 19.0, WET . , CLOUD. TYPE , AMT , WEATHER . .																		
0	19.05	32.290	6.54							0	19.05	32.290	6.54	22.96	491	490	.0000	
10	18.59	32.470	5.67							10	18.59	32.470	5.67	23.21	467	467	.0479	
20	18.51	32.940	5.54							20	18.51	32.940	5.54	23.59	431	431	.0928	
30	18.50	32.950	5.74							30	18.50	32.950	5.74	23.60	430	430	.1359	
50	15.41	32.950	6.03							50	15.41	32.950	6.03	24.32	361	362	.2152	
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, OCT. 7, 1980, 21.45 KST, DEPTH 61 , COLOR , TRANS. . .																		
WAVE 2, SWELL 1, WIND SW 3, BARO 1014. , AIR TEMP. DRY 19.8, WET . , CLOUD. TYPE , AMT , WEATHER . .																		
0	19.23	32.230	5.69							0	19.23	32.230	5.69	22.87	499	499	.0000	
10	18.65	32.200	5.64							10	18.65	32.200	5.64	22.99	488	488	.0494	
20	19.00	32.590	5.59							20	19.00	32.590	5.59	23.20	468	468	.0972	
30	18.71	32.570	5.99							30	18.71	32.570	5.99	23.26	462	463	.1438	
50	17.59	32.740	5.44							50	12.59	32.740	5.44	24.74	321	322	.2274	
50	12.46	32.790	5.25															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, OCT. 7, 1980, 23.25 KST, DEPTH 57 , COLOR , TRANSP. ,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1014.1, AIR TEMP. DRY 19.0, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	20.39	32.290	5.50							0	20.39	32.290	5.50	22.62	524	523	.0000
10	19.49	32.270	5.64							10	19.49	32.270	5.64	22.84	503	503	.0514
20	19.05	32.410	5.71							20	19.05	32.410	5.71	23.05	482	482	.1007
30	18.47	32.590	5.46							30	18.47	32.590	5.46	23.34	455	456	.1476
54	13.69	32.850	5.02							50	14.49	32.807	5.09	24.41	352	353	.2286
KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, OCT. 8, 1980, 01.10 KST, DEPTH 65 , COLOR , TRANSP. ,																	
WAVE 3, SWELL 2, WIND NW 4, BARO 1014.1, AIR TEMP. DRY 19.9, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	20.39	32.320	5.88							0	20.39	32.320	5.88	22.64	521	521	.0000
10	20.51	32.160	5.57							10	20.51	32.180	5.57	22.50	535	535	.0528
20	20.32	32.740	5.99							20	20.32	32.740	5.99	22.08	489	490	.1041
30	20.25	32.850	5.64							30	20.25	32.850	5.64	23.08	479	480	.1526
50	13.25	32.860	5.94							50	13.25	32.860	5.94	24.71	324	325	.2333
62	12.95	33.040	5.03														
KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, OCT. 8, 1980, 02.55 KST, DEPTH 67 , COLOR , TRANSP. ,																	
WAVE 3, SWELL 2, WIND NW 4, BARO 1014. , AIR TEMP. DRY 18.8, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	20.41	32.210	5.33							0	20.41	32.210	5.33	22.55	530	530	.0000
10	20.39	32.120	5.74							10	20.39	32.120	5.74	22.49	536	536	.0533
20	20.09	32.340	6.74							20	20.09	32.340	6.74	22.74	513	513	.1058
30	16.00	32.740	6.62							30	16.00	32.740	6.62	24.03	389	389	.1510
50	12.80	33.040	5.53							50	12.80	33.040	5.53	24.04	303	303	.2203
62	12.85	33.060	5.13														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA	HAN RA	SAN		STATION 307-10	36-55.5. N, 124-22.3. E, OCT. 8, 1980, 06.45 KST, DEPTH	76	COLOR	TRANS.									
WAVE	2, SWELL	2, WIND NW	4, BARO 1015.2, AIR TEMP. DRY	17.1, WET													
0	20.30	32.200	5.33							0	20.30	32.200	5.33	22.57	528	528	.0000
10	20.39	32.140	5.39							10	20.39	32.140	5.39	22.51	535	535	.0532
20	20.25	32.120	5.44							20	20.25	32.120	5.44	22.53	532	533	.1066
30	20.15	32.160	5.54							30	20.15	32.160	5.54	22.58	527	528	.1596
50	17.01	32.970	5.23							50	13.01	32.970	5.23	24.84	312	313	.2438
72	12.91	33.080	5.25														

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KOREA	HAN RA	SAN	STATION 307-03	36-56.5. N, 124-00.0. E, DEC. 16, 1980, 03.05 KST, DEPTH	38	COLOR	TRANS.										
WAVE	4, SWELL	3, WIND NW	4, BARO 1029. , AIR TEMP. DRY	4.2, WET													
0	10.39	33.120	5.69							0	10.39	33.120	5.69	25.44	255	254	.0000
10	10.51	33.040	5.70							10	10.51	33.040	5.70	25.36	262	262	.0259
20	10.48	33.010	5.69							20	10.48	33.010	5.69	25.34	264	264	.0523
35	10.69	32.990	5.77							30	10.62	32.997	5.74	25.30	267	268	.0789
KOREA	HAN RA	SAN	STATION 307-04	36-55.5. N, 125-37.7. E, DEC. 16, 1980, 05.45 KST, DEPTH	33	COLOR	TRANS.										
WAVE	4, SWELL	3, WIND NW	4, BARO 1029.2, AIR TEMP. DRY	3.8, WET													
0	9.89	32.940	5.77							0	9.89	32.940	5.77	25.38	260	260	.0000
10	9.98	32.920	5.76							10	9.98	32.920	5.76	25.35	263	263	.0262
20	10.09	32.940	5.87							20	10.09	32.940	5.87	25.35	263	263	.0525
30	10.11	32.900	5.72							30	10.11	32.900	5.72	25.32	266	267	.0790

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, DEC.14,1980, 07.25 VST, DEPTH 54 , COLOR , TRANS. . .																	
WAVE 4, SWELL 2, WIND NW 4, BARO 1029.5, AIR TEMP. DRY 3.7, WET . , CLOUD. TYPE , AM- , WEATHER C ,																	
0	9.72	32.830	5.91							0	9.72	32.830	5.91	25.33	265	265	.0000
10	9.88	32.850	5.96							10	9.88	32.850	5.96	25.32	266	266	.0266
20	9.92	32.770	6.18							20	9.92	32.770	6.18	25.25	273	273	.0536
30	9.90	32.700	5.80							30	9.90	32.760	5.80	25.24	273	274	.0810
50	9.89	32.850	5.82							50	9.89	32.850	5.82	25.31	267	267	.1352
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, DEC.14,1980, 09.10 VST, DEPTH 60 , COLOR 5, TRANS. 8.0,																	
WAVE 4, SWELL 2, WIND NW 4, BARO 1029.6, AIR TEMP. DRY 3.9, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	9.51	32.770	6.44							0	9.51	32.770	6.44	25.31	267	266	.0000
10	9.61	32.810	5.87							10	9.61	32.810	5.87	25.33	265	265	.0266
20	9.75	32.810	5.77							20	9.75	32.810	5.77	25.31	267	267	.0533
30	9.80	32.790	6.06							30	9.80	32.790	6.06	25.28	270	270	.0802
50	9.89	32.860	5.96							50	9.89	32.860	5.96	25.32	266	266	.1339
57	9.88	32.810	5.88														
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, DEC.16,1980, 10.55 VST, DEPTH 60 , COLOR 5, TRANS. 9.0,																	
WAVE 4, SWELL 3, WIND NW 4, BARO 1029.8, AIR TEMP. DRY 3.9, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	9.45	32.740	6.24							0	9.45	32.740	6.24	25.30	268	268	.0000
10	9.72	32.760	5.79							10	9.72	32.760	5.79	25.27	271	270	.0269
20	9.73	32.760	5.89							20	9.73	32.760	5.89	25.27	271	271	.0541
30	9.79	32.790	5.87							30	9.79	32.790	5.87	25.28	269	270	.0811
57	9.71	32.860	6.15							50	9.73	32.842	6.08	25.33	265	265	.1347

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-47.5. E, DEC.16.1980, 12.45 KST, DEPTH 65 , COLOR 7, TRANSP. 13.0,																	
WAVE	4, SWELL	3, WIND HW	4, BARO 1030. , AIR TEMP. DRY	4.1, WET													
0	9.40	32.830	5.87						0	9.40	32.830	5.87	25.38	260	260	.0000	
10	9.69	32.880	5.86						10	9.69	32.880	5.86	25.37	261	261	.0261	
20	9.68	32.810	5.87						20	9.68	32.810	5.87	25.32	266	266	.0525	
30	9.75	32.830	5.77						30	9.75	32.830	5.77	25.32	266	266	.0792	
50	9.64	32.810	5.95						50	9.64	32.810	5.95	25.32	266	266	.1325	
62	9.70	32.770	5.80														
KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, DEC.16.1980, 14.30 KST, DEPTH 67 , COLOR 3, TRANSP. 12.0,																	
WAVE	4, SWELL	3, WIND HW	4, BARO 1029. , AIR TEMP. DRY	4.0, WET													
0	9.31	32.770	5.85						0	9.31	32.770	5.85	25.35	264	263	.0000	
10	8.70	32.830	5.87						10	8.70	32.830	5.87	25.49	250	250	.0257	
20	9.02	32.760	5.77						20	9.02	32.760	5.77	25.38	260	260	.0512	
30	8.96	32.830	5.96						30	8.96	32.830	5.96	25.45	254	254	.0770	
50	8.72	32.850	5.87						50	8.72	32.850	5.87	25.50	249	249	.1274	
64	8.26	32.850	5.82														
KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, DEC.16.1980, 16.20 KST, DEPTH 75 , COLOR 7, TRANSP. 17.0,																	
WAVE	4, SWELL	3, WIND HW	4, BARO 1029. , AIR TEMP. DRY	3.5, WET													
0	9.07	32.770	5.87						0	9.07	32.770	5.87	25.38	260	260	.0000	
10	8.43	32.720	5.86						10	8.43	32.720	5.86	25.44	254	254	.0257	
20	8.75	32.740	5.89						20	8.75	32.740	5.89	25.41	257	257	.0514	
30	8.70	32.720	5.82						30	8.70	32.720	5.82	25.40	258	258	.0772	
50	8.42	32.700	6.10						50	8.42	32.700	6.10	25.43	256	256	.1287	
72	8.13	32.760	6.05														

308선 해양관측성적

Oceanographic Data. Line 308

Oceanographic Data, Line 300																	
OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

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KOREA , HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, FEB.15.1980, 18.50 KST, DEPTH 21 , COLOR , TRANS. . .
 WAVE 2, SWELL 1, WIND SE 2, BARO 1034. , AIR TEMP. DRY 1.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	3.78	32.850	7.47							0	3.78	32.850	7.47	26.12	190	199	.0000
10	3.65	32.880	7.37							10	3.65	32.880	7.37	26.16	186	186	.0128
18	3.52	32.920	7.37														

KOREA , HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, FEB.15.1980, 17.10 KST, DEPTH 28 , COLOR 7, TRANS. 3.0.
 WAVE 2, SWELL 1, WIND SE 2, BARO 1034. , AIR TEMP. DRY 1.5, WET . , CLOUD. TYPE CI, AMT 2, WEATHER P ,

0	3.92	32.850	7.27							0	3.82	32.850	7.27	26.12	120	100	.0000
10	3.88	32.880	7.27							10	3.88	32.880	7.27	26.14	138	138	.0150
20	3.90	32.900	7.32							20	3.90	32.900	7.32	26.15	147	147	.0378
25	3.78	32.950	7.37														

KOREA , HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, FEB.15.1980, 15.25 KST, DEPTH 48 , COLOR 5, TRANS. 8.0.
 WAVE 2, SWELL 1, WIND E 2, BARO 1034. , AIR TEMP. DRY 2.0, WET . , CLOUD. TYPE CI, AMT 2, WEATHER F ,

0	4.10	32.850	7.17							0	4.10	32.880	7.17	26.11	191	100	.0000
10	4.28	32.940	7.27							10	4.28	32.940	7.27	26.14	188	188	.0189
20	4.32	32.950	7.47							20	4.32	32.950	7.47	26.15	187	187	.0377
30	4.22	32.950	7.17							30	4.22	32.950	7.17	26.16	186	186	.0565
45	4.32	32.990	7.27														

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-Dr							
KOREA , HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, FEB.15.1980, 13.45 KST, DEPTH 50 , COLOR 5, TRANS. 8.0,																								
WAVE 2, SWELL 1, WIND E 2, BARO 1035. , AIR TEMP. DRY 7.6, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,																								
0	3.95	32.740	7.22							0	3.95	32.740	7.22	26.02	200	199	.0000							
10	3.92	32.770	6.57							10	3.92	32.770	6.57	26.05	197	197	.0199							
20	4.12	32.880	6.87							20	4.12	32.880	6.87	26.11	191	191	.0393							
30	4.10	32.920	7.07							30	4.10	32.920	7.07	26.15	187	187	.0582							
47	4.08	32.920	7.12																					
KOREA , HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, FEB.15.1980, 12.00 KST, DEPTH 54 , COLOR 4, TRANS. 10.0,																								
WAVE 3, SWELL 2, WIND E 2, BARO 1035.5, AIR TEMP. DRY 3.2, WET . , CLOUD. TYPE AS, AMT 1, WEATHER B ,																								
0	3.70	32.770	7.22							0	3.70	32.770	7.22	26.07	195	195	.0000							
10	3.81	32.830	7.12							10	3.81	32.830	7.12	26.10	192	191	.0194							
20	3.88	32.810	8.33							20	3.88	32.810	8.33	26.08	194	194	.0386							
30	3.75	32.830	6.77							30	3.75	32.830	6.77	26.11	191	191	.0579							
50	3.87	32.880	7.12							50	3.87	32.880	7.12	26.14	188	188	.0959							
KOREA , HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, FEB.15.1980, 10.20 KST, DEPTH 58 , COLOR 4, TRANS. 10.5,																								
WAVE 3, SWELL 2, WIND NE 2, BARO 1035.5, AIR TEMP. DRY 3.0, WET . , CLOUD. TYPE AS, AMT 2, WEATHER F ,																								
0	3.60	32.540	7.37							0	3.60	32.540	7.37	25.89	212	211	.0000							
10	3.42	32.740	7.37							10	3.42	32.740	7.37	26.07	195	195	.0203							
20	3.61	32.760	7.37							20	3.61	32.760	7.37	26.07	195	195	.0309							
30	3.52	32.770	7.39							30	3.52	32.770	7.39	26.08	193	193	.0593							
55	3.48	32.790	7.47							50	3.49	32.786	7.45	26.10	192	192	.0980							

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2.N	NO3.N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D.DY
KOREA , HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, FEB.15.1980, 06.30 KST, DEPTH 65 , COLOR 4, TRANS. 9.0,																	
WAVE 4, SWELL 3, WIND NW 3, BARO 1035.5, AIR TEMP. DRY 1.0, WET , CLOUD. TYPE AS, AMT 2, WEATHER F ,																	
0	3.50	32.740	7.32							0	3.50	32.740	7.32	26.06	196	195	.0060
10	3.70	32.760	7.37							10	3.70	32.760	7.37	26.06	196	196	.0196
20	3.52	32.810	7.27							20	3.52	32.810	7.27	26.12	190	100	.0389
30	3.61	32.850	7.27							30	3.61	32.850	7.27	26.14	188	188	.0579
50	3.72	32.590	7.37							50	3.72	32.590	7.37	25.92	209	209	.0977
62	3.71	32.630	7.42														
KOREA , HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, FEB.15.1980, 06.45 KST, DEPTH 75 , COLOR , TRANS. ,																	
WAVE 4, SWELL 3, WIND NW 4, BARO 1033. , AIR TEMP. DRY -3.0, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	4.01	32.860	7.43							0	4.01	32.860	7.43	26.11	191	191	.0000
10	4.03	32.860	7.42							10	4.03	32.860	7.42	26.11	191	191	.0191
20	4.00	32.880	7.29							20	4.00	32.880	7.29	26.12	190	189	.0382
30	3.98	32.880	7.22							30	3.98	32.880	7.22	26.13	189	199	.0572
50	4.02	32.900	7.21							50	4.02	32.900	7.21	26.14	188	198	.0951
72	3.90	32.960	7.17														
KOREA , HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-35.1. E, FEB.15.1980, 04.55 KST, DEPTH 83 , COLOR , TRANS. ,																	
WAVE 4, SWELL 3, WIND NW 4, BARO 1032.8, AIR TEMP. DRY -1.0, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	4.00	32.790	7.53							0	4.00	32.790	7.53	26.05	196	196	.0000
10	4.21	32.830	7.42							10	4.21	32.830	7.42	26.06	195	195	.0196
20	3.98	32.830	7.37							20	3.98	32.830	7.37	26.09	193	193	.0391
30	4.23	32.850	7.39							30	4.23	32.850	7.39	26.08	194	194	.0585
50	4.37	32.860	7.36							50	4.37	32.860	7.36	26.07	195	195	.0974
80	4.36	32.940	7.27							75	4.36	32.977	7.20	26.12	190	190	.1456

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, FEB. 14, 1980, 03.05 KST, DEPTH 81 , COLOR , TRANS. . .																	
WAVE 4, SWELL 3, WIND NW 4, BARO 1033. , AIR TEMP. DRY - .0, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	3.68	32.830	7.27							0	3.68	32.830	7.27	26.12	190	190	.0000
10	3.72	32.850	7.17							10	3.72	32.850	7.17	26.13	189	189	.0190
20	3.83	32.880	7.07							20	3.83	32.880	7.07	26.14	188	188	.0379
30	4.02	32.920	6.52							30	4.02	32.920	6.52	26.15	187	187	.0567
50	4.00	32.900	7.35							50	4.00	32.900	7.35	26.14	188	188	.0942
75	4.28	32.970	6.91							75	4.28	32.970	6.91	26.17	185	186	.1411

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KOREA , HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, APR. 11, 1980, 23.55 KST, DEPTH 21 , COLOR , TRANS. . .																	
WAVE 3, SWELL 2, WIND NE 2, BARO 1020.6, AIR TEMP. DRY 11.0, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	5.80	32.700	7.09							0	5.80	32.700	7.09	25.78	222	222	.0000
10	5.35	32.720	7.07							10	5.35	32.720	7.07	25.85	215	215	.0219
18	5.40	32.860	7.07														
KOREA , HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, APR. 11, 1980, 22.15 KST, DEPTH 30 , COLOR , TRANS. . .																	
WAVE 3, SWELL 2, WIND NE 2, BARO 1020.5, AIR TEMP. DRY 12.5, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	5.70	32.700	7.37							0	5.70	32.700	7.37	25.80	221	220	.0000
10	5.40	32.760	7.27							10	5.40	32.760	7.27	25.88	213	213	.0217
20	5.32	32.740	7.17							20	5.32	32.740	7.17	25.87	214	213	.0431
27	5.33	32.740	7.07														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	O-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, APR.11.1980, 20.30 KST, DEPTH 50 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1020. , AIR TEMP. DRY 12.5, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	6.60	32.830	7.17							0	6.60	32.830	7.17	25.79	222	221	.0000
10	5.50	32.830	7.22							10	5.50	32.830	7.22	25.92	209	209	.0215
20	5.42	32.850	7.27							20	5.42	32.850	7.27	25.95	206	206	.0423
30	5.22	32.830	6.92							30	5.22	32.830	6.92	25.95	206	206	.0630
47	5.24	32.860	7.07														
KOREA , HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, APR.11.1980, 18.50 KST, DEPTH 50 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1020. , AIR TEMP. DRY 13.2, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	6.52	32.850	7.07							0	6.52	32.850	7.07	25.81	219	219	.0000
10	5.32	32.810	7.07							10	5.32	32.810	7.07	25.93	208	208	.0214
20	5.70	32.850	7.12							20	5.30	32.850	7.12	25.96	205	205	.0421
30	5.10	32.830	7.10							30	5.10	32.830	7.10	25.97	204	204	.0626
47	5.28	32.880	6.97														
KOREA , HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, APR.11.1980, 17.00 KST, DEPTH 54 , COLOR 4, TRANS. 6.0,																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1020. , AIR TEMP. DRY 13.3, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	6.95	32.900	7.17							0	6.95	32.900	7.17	25.80	221	221	.0000
10	5.80	32.850	7.27							10	5.60	32.850	7.27	25.90	211	210	.0216
20	5.70	32.830	7.37							20	5.32	32.830	7.37	25.94	207	207	.0425
30	5.28	32.860	7.17							30	5.28	32.860	7.17	25.97	204	204	.0631
50	5.30	32.920	6.57							50	5.30	32.920	6.57	26.02	200	200	.1036

OBSERVED										INTERPOLATED							
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, APR. 11, 1980, 15.15 KST, DEPTH 58 , COLOR 4, TRANS. 6.0, WAVE 2, SWELL 1, WIND NE 2, BARO 1020.5, AIR TEMP. DRY 13.5, WET , CLOUD. TYPE AS, AMT 8, WEATHER C ,																	
0	6.30	32.920	7.17							0	6.30	32.920	7.17	25.90	211	211	.0060
10	5.65	32.940	7.27							10	5.65	32.940	7.27	25.99	202	202	.0207
20	5.65	32.920	6.97							20	5.65	32.920	6.97	25.98	204	204	.0410
30	5.30	32.920	6.46							30	5.30	32.920	6.46	26.02	200	200	.0613
55	5.39	32.950	6.46							50	5.37	32.944	6.46	26.03	199	199	.1012
KOREA , HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, APR. 11, 1980, 13.25 KST, DEPTH 66 , COLOR 4, TRANS. 7.0, WAVE 2, SWELL 1, WIND SE 2, BARO 1021.5, AIR TEMP. DRY 12.5, WET , CLOUD. TYPE AS, AMT 8, WEATHER C ,																	
0	6.85	32.970	7.07							0	6.85	32.970	7.07	25.86	214	214	.0000
10	5.90	32.970	7.07							10	5.90	32.970	7.07	25.98	203	203	.0209
20	5.82	32.950	7.22							20	5.82	32.950	7.22	25.98	203	203	.0412
30	5.72	32.940	7.07							30	5.72	32.940	7.07	25.98	203	203	.0616
50	5.72	32.950	6.26							50	5.72	32.950	6.26	25.99	202	202	.1013
63	5.30	32.910	6.36														
KOREA , HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, APR. 11, 1980, 11.40 KST, DEPTH 74 , COLOR 4, TRANS. 7.5, WAVE 2, SWELL 1, WIND SE 2, BARO 1022. , AIR TEMP. DRY 11.7, WET , CLOUD. TYPE AS, AMT 7, WEATHER PC,																	
0	7.00	32.970	5.97							0	7.00	32.970	6.97	25.84	216	216	.0000
10	6.23	32.990	6.26							10	6.23	32.990	6.26	25.96	205	205	.0211
20	6.05	32.990	6.99							20	6.05	32.990	6.99	25.98	203	203	.0416
30	6.03	32.970	6.92							30	6.03	32.970	6.92	25.97	204	204	.0620
50	5.79	32.940	6.28							50	5.79	32.940	6.28	26.05	196	197	.1022
70	5.50	32.940	6.21														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	Q2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 308-00 , 36-19.8. N, 124-35.1. E, APR.11.1980, 09.50 KST, DEPTH 83 , COLOR 4, TRANS. 7.0.
 WAVE 2, SWELL 1, WIND SE 2, BARO 1022.5, AIR TEMP. DRY 9.8, WET , CLOUD. TYPE AS, AMT 7, WEATHER BC,
 0 7.13 33.080 6.77 0 7.13 33.080 6.77 25.91 210 209 .0000
 10 6.25 33.060 6.82 10 6.25 33.060 6.82 26.01 200 200 .0205
 20 6.20 33.080 6.67 20 6.20 33.080 6.67 26.03 198 198 .0405
 30 6.23 33.040 6.57 30 6.23 33.040 6.57 26.00 201 202 .0605
 50 5.80 33.170 6.46 50 5.80 33.170 6.46 26.15 187 187 .0995
 80 5.82 33.190 6.26 75 5.82 33.187 6.29 26.17 186 186 .1462

KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, APR.11.1980, 08.00 KST, DEPTH 80 , COLOR 4, TRANS. 8.0.
 WAVE 1, SWELL 1, WIND SE 1, BARO 1023. , AIR TEMP. DRY 9.3, WET , CLOUD. TYPE AS, AMT 8, WEATHER C ,
 0 7.61 33.150 6.87 0 7.61 33.150 6.87 25.90 211 211 .0000
 10 6.82 33.210 6.92 10 6.82 33.210 6.92 26.06 196 196 .0204
 20 6.60 33.220 6.77 20 6.60 33.220 6.77 26.09 193 193 .0398
 30 6.55 33.220 6.97 30 6.55 33.220 6.97 26.10 192 192 .0591
 50 6.01 33.350 6.67 50 6.01 33.350 6.67 26.27 176 176 .0960
 75 6.18 33.310 6.41 75 6.18 33.310 6.41 26.22 181 181 .1408

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KOREA , HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, JUN.11.1980, 05.15 KST, DEPTH 21 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND S 1, BARO 1011. , AIR TEMP. DRY 15.4, WET , CLOUD. TYPE , AMT , WEATHER F ,
 0 16.95 31.920 5.67 0 16.95 31.920 5.67 23.19 469 469 .0000
 10 17.59 31.960 6.19 10 13.59 31.960 6.19 23.95 397 397 .0433
 18 17.70 32.200 6.03

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D.OY							
KOREA , HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, JUN.11.1980, 03.35 KST, DEPTH 30 , COLOR , TRANS. . .																								
WAVE 1, SWELL 1, WIND S 1, BARO 1011. , AIR TEMP. DRY 15.7, WET . , CLOUD. TYPE , AMT , WEATHER F ,																								
0	16.82	32.140	5.62							0	16.82	32.140	5.62	23.39	450	450	.0000							
10	17.89	32.160	5.93							10	13.89	32.160	5.93	24.04	388	388	.0419							
20	13.05	32.300	5.86							20	13.05	32.300	5.86	24.32	362	362	.0795							
27	11.71	32.390	6.19																					
KOREA , HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, JUN.11.1980, 01.50 KST, DEPTH 49 , COLOR , TRANS. . .																								
WAVE 2, SWELL 1, WIND S 2, BARO 1011. , AIR TEMP. DRY 16.0, WET . , CLOUD. TYPE , AMT , WEATHER F ,																								
0	15.84	32.430	5.77							0	15.84	32.430	5.77	23.83	408	408	.0000							
10	13.69	32.450	6.08							10	13.69	32.450	6.08	24.30	363	363	.0386							
20	12.19	32.450	6.13							20	12.19	32.450	6.13	24.60	335	335	.0735							
30	11.85	32.470	6.19							30	11.85	32.470	6.19	24.68	327	328	.1067							
45	10.19	32.560	5.88																					
KOREA , HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, JUN.11.1980, 00.10 KST, DEPTH 50 , COLOR , TRANS. . .																								
WAVE 2, SWELL 1, WIND S 2, BARO 1010.9, AIR TEMP. DRY 16.5, WET . , CLOUD. TYPE , AMT , WEATHER ,																								
0	15.26	32.560	6.03							0	15.26	32.560	6.03	24.06	386	386	.0000							
10	13.55	32.500	5.98							10	13.55	32.500	5.98	24.37	356	356	.0372							
20	12.19	32.480	5.98							20	13.19	32.480	5.98	24.43	351	351	.0726							
30	12.02	32.470	5.98							30	12.02	32.470	5.98	24.64	330	331	.1067							
47	9.09	32.590	6.29																					

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, JUN.10.1980, 18.25 KST, DEPTH 52 , COLOR , TRANS. . .																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1010.9, AIP TEMP. DRY 16.8, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	15.00	32.650	6.08							0	15.00	32.650	6.08	24.18	374	374	.0000
10	15.02	32.610	5.77							10	15.02	32.610	5.77	24.15	378	378	.0376
20	11.65	32.700	6.24							20	11.65	32.700	6.24	24.89	307	307	.0719
30	7.75	32.790	6.60							30	7.75	32.790	6.60	25.60	240	240	.0993
40	7.65	32.790	6.65														
KOREA , HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, JUN.10.1980, 20.45 KST, DEPTH 58 , COLOR , TRANS. . .																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1011. , AIP TEMP. DRY 16.8, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	14.95	32.650	5.77							0	14.95	32.650	5.77	24.19	373	373	.0000
10	14.69	32.630	6.29							10	14.69	32.630	6.29	24.23	369	369	.0372
20	10.49	32.660	6.34							20	10.49	32.660	6.34	25.07	290	290	.0702
30	7.12	32.830	6.49							30	7.12	32.830	6.49	25.72	228	228	.0962
53	7.00	32.850	6.34							50	7.02	32.847	6.36	25.74	226	226	.1417
KOREA , HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, JUN.10.1980, 18.55 KST, DEPTH 67 , COLOR , TRANS. 10.0.																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1011. , AIP TEMP. DRY 17.2, WET . , CLOUD. TYPE AS, AMT 7, WEATHER BC,																	
0	15.00	32.630	6.82							0	15.00	32.630	5.82	24.17	376	375	.0000
10	14.61	32.610	5.77							10	14.61	32.610	5.77	24.24	369	369	.0373
20	12.40	32.860	6.60							20	12.40	32.860	6.60	24.87	308	309	.0712
30	7.01	32.920	6.24							30	7.01	32.920	6.24	25.80	220	220	.0977
50	6.92	32.950	6.24							50	6.92	32.950	6.24	25.84	217	217	.1415
64	6.89	32.950	5.96														

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAI	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA , HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-47.5. E, JUN.10.1980, 17.10 KST, DEPTH 75 , COLOR 3, TRANSP. 16.5.																								
WAVE 2, SWELL 1, WIND NW 2, EARD 1010.6, AIP TEMP. DRY 16.6, WET . , CLOUD. TYPE AS, AMT 8, WEATHER C ,																								
0	14.92	32.610	5.75							0	14.92	32.610	5.75	24.17	376	375	.0000							
10	14.59	32.590	6.13							10	14.59	32.590	6.13	24.22	370	370	.0373							
20	12.38	32.650	6.19							20	12.38	32.650	6.19	24.27	366	366	.0707							
30	6.69	32.880	6.29							30	6.69	32.880	6.29	25.81	219	219	.0993							
50	6.60	32.920	6.34							50	6.60	32.920	6.34	25.86	215	215	.1428							
72	6.47	32.920	6.03																					
KOREA , HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-47.5. E, JUN.10.1980, 15.20 KST, DEPTH 84 , COLOR 3, TRANSP. 15.0.																								
WAVE 2, SWELL 1, WIND SW 2, EARD 1011. , AIP TEMP. DRY 16.8, WET . , CLOUD. TYPE ST, AMT 10, WEATHER C ,																								
0	15.06	32.740	5.88							0	15.06	32.740	5.88	24.24	369	369	.0000							
10	14.71	32.680	5.62							10	14.71	32.680	5.62	24.27	366	366	.0323							
20	12.52	32.610	6.39							20	12.52	32.610	6.39	24.66	329	329	.0716							
30	6.88	32.970	6.39							30	6.88	32.970	6.39	25.86	215	215	.0988							
50	6.69	32.970	6.17							50	6.69	32.970	6.13	25.18	212	213	.1417							
80	6.52	32.990	6.19							75	6.55	32.987	6.18	25.92	209	210	.1947							
KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-47.5. E, JUN.10.1980, 13.35 KST, DEPTH 80 , COLOR 3, TRANSP. 16.0.																								
WAVE 2, SWELL 1, WIND SW 2, EARD 1011.4, AIR TEMP. DRY 17.2, WET . , CLOUD. TYPE ST, AMT 10, WEATHER C ,																								
0	15.00	32.740	5.77							0	15.00	32.740	5.77	24.25	368	367	.0000							
10	14.75	32.700	5.67							10	14.75	32.700	5.67	24.28	365	365	.0367							
20	12.64	32.760	5.82							20	12.64	32.760	5.82	24.28	320	320	.0707							
30	6.72	32.950	6.02							30	6.72	32.950	6.06	25.86	214	214	.0978							
50	6.64	32.990	6.13							50	6.64	32.990	6.13	25.91	210	211	.1404							
75	6.54	32.990	5.88							75	6.54	32.990	5.88	25.92	209	210	.1930							

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D T	SVA	D DY

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KOREA , HAN RA SAN , STATION 306-01 , 36-19.8° N, 126-14.4° E, AUG. 8, 1980, 06.35 WST, DEPTH 20 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND NW 3, BARO 1009.9, AIR TEMP. DRY 19.7, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	21.95	32.610	5.31							0	21.95	32.610	5.31	22.44	541	540	.0000
10	21.89	32.540	5.42							10	21.89	32.540	5.42	22.40	544	544	.0543
17	20.89	32.590	5.51														

KOREA , HAN RA SAN , STATION 308-02 , 36-19.8° N, 126-02.3° E, AUG. 8, 1980, 02.55 WST, DEPTH 30 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND NW 3, BARO 1009.9, AIR TEMP. DRY 19.9, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	21.41	32.300	5.46							0	21.41	32.300	5.46	22.35	540	549	.0543
10	21.40	32.500	5.51							10	21.49	32.500	5.51	22.48	537	577	.0543
20	17.38	32.970	5.56							20	17.38	32.970	5.56	23.89	402	403	.1013
27	16.22	32.280	5.41														

KOREA , HAN RA SAN , STATION 306-03 , 36-19.8° N, 126-50.0° E, AUG. 8, 1980, 01.10 WST, DEPTH 40 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND NW 3, BARO 1009.1, AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	22.55	32.540	5.31							0	22.55	32.540	5.31	22.22	562	561	.0000
10	22.61	32.500	4.85							10	22.61	32.500	4.85	22.17	566	566	.0564
20	17.22	32.060	4.90							20	17.22	32.080	4.90	24.01	391	391	.1043
30	15.62	32.220	5.05							30	15.62	32.220	5.05	24.49	345	366	.1412
45	15.30	32.190	5.46														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KORFA ,HAN RA SAN , STATION 302-04 , 36-19.8. N, 125-27.0. E, AUG. 7.1980, 23.30 VST, DEPTH 52 , COLOR , TRANS. , ,																	
WAVE 1, SWELL 1, WIND W 2, EARO 1009.1, AIR TEMP. DRY 20.7, WET																	
0	27.00	32.410	4.73							0	23.00	32.410	4.73	22.00	583	583	.0000
10	27.05	32.360	4.62							10	23.05	32.360	4.62	21.94	588	588	.0586
20	20.42	32.360	5.29							20	20.42	32.380	5.29	22.68	518	518	.1140
30	14.49	33.130	4.90							30	14.49	33.130	4.90	24.66	329	329	.1564
40	14.22	33.280	4.90														
KORFA ,AN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, AUG. 7.1980, 21.45 VST, DEPTH 52 , COLOR , TRANS. , ,																	
WAVE 1, SWELL 1, WIND W 2, EARO 1009.1, AIR TEMP. DRY 20.3, WET																	
0	22.92	32.210	5.10							0	22.92	32.210	5.10	21.87	596	596	.0000
10	22.80	32.200	5.10							10	22.80	32.200	5.10	21.89	593	593	.0595
20	15.42	33.280	5.97							20	15.42	33.280	5.97	24.58	337	337	.1060
30	13.50	33.370	5.56							30	13.50	33.370	5.56	25.05	292	292	.1375
40	13.40	33.370	5.10														
KORFA ,HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. F, AUG. 7.1980, 20.00 VST, DEPTH 56 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NW 3, EARO 1009.1, AIR TEMP. DRY 20.5, WET																	
0	23.11	32.050	5.11							0	23.11	32.050	5.11	21.69	612	612	.0000
10	21.21	32.480	5.61							10	21.21	32.480	5.61	22.54	531	531	.0572
20	15.82	32.520	5.92							20	15.82	32.520	5.92	23.00	401	401	.1038
30	12.20	33.260	5.51							30	12.20	33.260	5.51	25.22	275	275	.1377
50	11.51	33.060	5.38							50	11.51	33.060	5.38	25.20	278	279	.1933

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	Q2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 308-07 , 36-10.8. N, 124-00.0. E, AUG. 7, 1980, 16.10 PST, DEPTH 66 , COLOR 3, TRANS. 9.0.																	
WAVE 2, SWELL 1, WIND NW 3, EARD 1010. , AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	23.09	37.720	5.05							0	23.09	37.320	5.05	21.90	592	592	.0000
10	22.90	37.760	5.41							10	22.90	37.390	5.41	22.01	582	582	.0587
20	15.25	37.280	5.61							20	15.25	33.280	5.61	24.61	333	334	.1046
30	11.32	33.330	5.10							30	11.32	33.330	5.10	25.44	255	255	.1341
50	11.11	37.280	5.46							50	11.11	33.280	5.46	25.44	255	256	.1852
63	11.00	37.310	5.20														
KOREA , HAN RA SAN , STATION 308-08 , 36-10.8. N, 124-47.5. E, AUG. 7, 1980, 16.25 PST, DEPTH 78 , COLOR 3, TRANS. 13.0.																	
WAVE 2, SWELL 1, WIND NE 3, EARD 1010.7, AIR TEMP. DRY 21.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	23.09	37.340	5.20							0	23.09	37.340	5.20	21.92	591	590	.0000
10	22.71	37.360	5.71							10	22.71	37.380	5.71	22.06	578	578	.0585
20	16.55	37.260	6.72							20	16.55	33.260	6.72	24.71	363	363	.1055
30	12.89	37.510	6.22							30	12.89	33.510	6.22	25.28	270	270	.1372
50	10.29	37.260	5.61							50	10.29	33.280	5.61	25.58	241	242	.1885
75	10.19	37.330	5.82							75	10.19	33.330	5.82	25.64	236	237	.2405
KOREA , HAN RA SAN , STATION 308-09 , 36-10.8. N, 124-35.1. E, AUG. 7, 1980, 14.35 PST, DEPTH 84 , COLOR 3, TRANS. 11.0.																	
WAVE 2, SWELL 1, WIND NE 3, EARD 1011. , AIR TEMP. DRY 21.2, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	23.10	37.320	5.29							0	23.10	37.320	5.29	21.90	593	592	.0000
10	22.70	37.160	5.20							10	22.70	37.160	5.20	21.87	596	596	.0504
20	16.45	37.260	6.73							20	16.45	33.260	6.73	24.33	360	361	.1073
30	12.64	37.550	6.42							30	12.64	33.550	6.42	25.16	281	282	.1395
50	9.82	37.260	6.02							50	9.82	33.260	6.02	25.61	275	276	.1913
80	9.79	33.280	5.73							75	9.79	33.277	5.73	25.61	235	235	.2502

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, AUG. 7.1980, 12.45 PST, DEPTH 81 , COLOR 3, TRANS. 12.0,																	
WAVE 2, SWELL 1, WIND NE 3, BARO 1010.5, AIR TEMP. DRY 20.6, WET . , CLOUD. TYPE NS, AMT 10, WEATHER F ,																	
0	23.05	32.250	5.10							0	23.05	32.250	5.10	21.86	596	506	.0000
10	23.19	32.270	5.08							10	23.19	32.270	5.08	21.84	599	509	.0508
20	17.30	33.100	6.11							20	17.30	33.100	6.11	24.01	391	301	.1093
30	12.39	33.120	6.21							30	12.39	33.120	6.21	25.08	289	290	.1434
50	8.95	33.150	6.02							50	8.95	33.150	6.02	25.70	230	270	.1955
70	8.89	33.120	5.71							75	8.90	33.123	5.74	25.69	231	232	.2534

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KOREA , HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, OCT.10.1980, 13.50 PST, DEPTH 21 , COLOR 5, TRANS. 7.0,																	
WAVE 2, SWELL 1, WIND SE 3, BARO 1016.5, AIR TEMP. DRY 18.1, WET . , CLOUD. TYPE NS, AMT 10, WEATHER F ,																	
0	18.85	32.630	5.64							0	18.85	32.630	5.64	23.27	461	461	.0000
10	18.88	32.590	5.44							10	18.88	32.590	5.44	23.23	465	465	.0463
18	18.89	32.600	4.90														

KOREA , HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, OCT.10.1980, 12.10 PST, DEPTH 28 , COLOR 5, TRANS. 6.0,																	
WAVE 3, SWELL 1, WIND SE 3, BARO 1020. , AIR TEMP. DRY 18.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER F ,																	
0	18.82	32.250	5.84							0	18.82	32.250	5.84	22.99	488	488	.0000
10	16.99	32.430	5.03							10	16.99	32.430	5.03	23.57	433	433	.0461
20	16.78	32.860	4.98							20	16.38	32.860	4.98	24.04	328	328	.0872
25	16.13	32.060	4.78														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY

KOREA ,HAN RA SAN , STATION 308-03 , 36-10.8. N, 125-50.0. E, OCT.10.1980, 10.25 KST, DEPTH 47 , COLOR 4, TRANS. 7.0,

WAVE 2, SWELL 1, WIND SE 3, EARO 1020. , AIP TEMP. DRY 10.7, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	18.90	32.410	5.44							0	18.90	32.410	5.44	23.09	478	478	.0000
10	18.88	32.520	5.63							10	18.88	32.520	5.63	23.18	470	470	.0475
20	17.82	33.100	5.19							20	17.82	33.100	5.19	23.88	403	403	.0912
30	16.83	33.310	4.83							30	16.83	33.310	4.83	24.28	365	366	.1297
44	16.25	33.240	4.64														

KOREA ,HAN RA SAN , STATION 308-04 , 36-10.8. N, 125-37.0. E, OCT.10.1980, 08.45 KST, DEPTH 51 , COLOR 4, TRANS. 9.0,

WAVE 2, SWELL 1, WIND SE 3, EARO 1020.4, AIP TEMP. DRY 18.7, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	19.59	32.250	5.35							0	19.59	32.250	5.35	22.80	507	506	.0000
10	18.79	32.380	5.54							10	18.79	32.380	5.54	23.10	478	478	.0493
20	17.92	32.590	5.24							20	17.92	32.590	5.24	23.47	442	443	.0953
30	16.11	32.220	5.20							30	16.11	32.220	5.20	24.38	356	356	.1354
48	15.39	32.300	4.53														

KOREA ,HAN RA SAN , STATION 308-05 , 36-10.8. N, 125-25.3. E, OCT. 8.1980, 19.00 KST, DEPTH 52 , COLOR , TRANS. ,

WAVE 4, SWELL 3, WIND NW 5, EARO 1021. , AIP TEMP. DRY 17.0, WET , CLOUD. TYPE , AMT , WEATHER ,

0	20.01	32.300	5.49							0	20.01	32.300	5.49	22.73	513	513	.0000
10	19.98	32.410	5.44							10	19.98	32.410	5.44	22.82	505	505	.0509
20	19.78	32.260	5.56							20	19.78	32.260	5.56	23.51	478	478	.0981
30	15.45	32.260	4.93							30	15.45	32.260	4.93	24.55	339	339	.1371
49	14.65	32.390	4.77														

OBSERVED.										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 302-06 , 36-10.8. N, 125-12.4. E, OCT. 8, 1960, 17.15 KST, DEPTH 59 , COLOR 3, TRANS. 18.0,																	
WAVE 4, SWELL 3, WIND NW 5, BARO 1021.5, AIR TEMP. DRY 17.5, WET , CLOUD. TYPE CC, AMT 1, WEATHER F ,																	
0	20.15	32.270	5.74							0	20.15	32.270	5.74	22.67	519	519	.0000
10	20.05	32.450	5.70							10	20.05	32.450	5.70	22.23	504	504	.0512
20	19.95	32.570	5.42							20	19.95	32.570	5.42	22.95	492	493	.1010
30	14.14	33.300	5.76							30	14.14	33.300	5.76	24.87	309	310	.1412
55	14.01	33.310	4.97							50	14.64	33.302	5.13	24.89	307	308	.2020
KOREA , HAN RA SAN , STATION 302-07 , 36-10.8. N, 125-00.0. E, OCT. 8, 1960, 15.25 KST, DEPTH 67 , COLOR 3, TRANS. 21.0,																	
WAVE 3, SWELL 2, WIND NW 4, BARO 1021.5, AIR TEMP. DRY 17.8, WET , CLOUD. TYPE CC, AMT 1, WEATHER B ,																	
0	20.35	32.340	5.59							0	20.35	32.340	5.59	22.67	519	519	.0000
10	20.32	32.410	5.82							10	20.32	32.410	5.82	22.73	513	513	.0516
20	20.29	32.390	5.70							20	20.29	32.390	5.70	22.72	514	514	.1031
30	19.62	33.260	5.94							30	19.62	33.260	5.94	23.56	434	435	.1506
50	13.95	33.300	5.41							50	13.95	33.300	5.41	24.91	305	306	.2248
64	13.49	33.370	4.78														
KOREA , HAN RA SAN , STATION 308-03 , 36-12.8. N, 124-47.5. E, OCT. 8, 1960, 13.35 KST, DEPTH 78 , COLOR 3, TRANS. 17.0,																	
WAVE 7, SWELL 1, WIND NW 4, BARO 1021.5, AIR TEMP. DRY 18.0, WET , CLOUD. TYPE CC, AMT 1, WEATHER F ,																	
0	20.41	32.320	5.69							0	20.41	32.320	5.69	22.64	522	522	.0000
10	20.47	32.410	5.61							10	20.49	32.410	5.61	22.68	517	517	.0570
20	20.32	32.300	5.44							20	20.32	32.300	5.44	22.71	515	516	.1037
30	16.95	33.240	5.84							30	16.95	33.240	5.84	24.20	373	373	.1482
50	13.55	33.560	5.33							50	13.55	33.590	5.33	25.21	276	277	.2154
75	13.53	33.500	5.74							75	13.53	33.500	5.74	25.15	283	284	.2877

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 302-00 , 36-19.8. N, 124-35.1. E, OCT. 8.1980, 11.40 KST, DEPTH 84 , COLOR 3, TRANS. 20.0,
 WAVE 7, SWELL 1, WIND NW 4, BARO 1020. , AIR TEMP. DRY 17.0, WET . , CLOUD. TYPE CC, AMT 1, WEATHER B ,
 0 20.50 32.250 5.03 0 20.50 72.250 5.03 22.56 529 529 .0000
 10 20.45 32.230 5.74 10 20.45 72.230 5.74 22.56 529 579 .0530
 20 20.50 33.190 5.19 20 20.50 33.190 6.19 23.27 461 461 .1026
 30 19.74 33.310 5.93 30 19.74 33.310 5.93 23.56 433 434 .1474
 50 12.79 33.530 4.98 50 12.79 33.530 4.98 25.72 266 267 .2176
 80 12.62 33.700 4.91 75 12.65 33.338 4.92 25.20 278 279 .2861

KOREA ,HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, OCT. 8.1980, 09.50 KST, DEPTH 80 , COLOR 3, TRANS. 19.0,
 WAVE 3, SWELL 2, WIND NW 4, BARO 1018.5, AIR TEMP. DRY 18.2, WET . , CLOUD. TYPE CC, AMT 1, WEATHER B ,
 0 20.42 32.180 5.72 0 20.42 72.180 5.72 22.53 532 532 .0000
 10 20.45 32.270 5.79 10 20.45 32.270 5.79 22.59 527 527 .0530
 20 20.34 33.120 5.74 20 20.34 33.120 5.74 23.26 462 462 .1025
 30 19.79 33.120 5.63 30 19.79 33.120 5.63 23.41 448 449 .1481
 50 12.71 33.190 4.98 50 12.71 33.190 4.98 25.07 290 291 .2222
 75 12.80 33.130 5.13 75 12.80 33.130 5.13 25.01 296 297 .2958

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KOREA ,HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, DEC.17.1980, 13.35 KST, DEPTH 27 , COLOR 5, TRANS. 4.0,
 WAVE 7, SWELL 1, WIND SE 3, BARO 1020. , AIR TEMP. DRY 5.6, WET . , CLOUD. TYPE AS, AMT 7, WEATHER FC,
 0 9.60 32.830 5.87 0 9.60 32.830 5.87 25.75 263 263 .0000
 10 10.05 32.760 5.69 10 10.05 32.760 5.69 25.22 276 276 .0270
 20 10.11 33.000 5.86 20 10.11 33.000 5.86 25.72 266 266 .0541

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DV
KOREA																	
STATION 308-03, 36-19.8. N, 126-02.3. E, DEC. 17, 1980, 11.55 KST, DEPTH 30, COLOR 5, TRANSP. 4.0,																	
WAVE 1, WIND SE 3, BARO 1029.5, AIR TEMP. DRY 5.0, WET ., CLOUD. TYPE AS, AMT 9, WEATHER C,																	
0	9.98	37.010	5.76							0	9.98	37.010	5.76	25.42	256	256	.0000
10	10.19	32.900	5.95							10	10.19	32.900	5.95	25.30	268	268	.0262
20	10.21	32.950	5.77							20	10.21	32.950	5.77	25.34	264	264	.0529
27	10.25	32.940	5.77														
KOREA																	
STATION 308-03, 36-19.8. N, 125-50.0. E, DEC. 17, 1980, 10.10 KST, DEPTH 50, COLOR 4, TRANSP. 6.0,																	
WAVE 2, WIND SE 3, BARO 1029.5, AIR TEMP. DRY 4.5, WET ., CLOUD. TYPE AS, AMT 10, WEATHER C,																	
0	10.45	33.040	5.77							0	10.45	33.040	5.77	25.37	261	261	.0000
10	10.49	33.030	5.77							10	10.49	33.030	5.77	25.35	263	263	.0262
20	10.48	33.100	5.82							20	10.48	33.100	5.82	25.41	258	258	.0523
30	10.52	33.080	6.53							30	10.52	33.080	6.53	25.39	260	260	.0782
47	10.59	33.010	5.73														
KOREA																	
STATION 308-04, 36-19.8. N, 125-37.0. E, DEC. 17, 1980, 06.30 KST, DEPTH 52, COLOR 4, TRANSP. 7.0,																	
WAVE 4, WIND NE 4, BARO 1029.5, AIR TEMP. DRY 4.3, WET ., CLOUD. TYPE AS, AMT 10, WEATHER C,																	
0	10.60	32.900	5.06							0	10.60	32.900	6.06	25.23	274	274	.0000
10	10.63	32.920	5.75							10	10.63	32.920	5.75	25.24	273	273	.0274
20	10.55	32.900	5.85							20	10.55	32.900	5.85	25.24	273	274	.0548
30	10.53	32.800	5.69							30	10.53	32.800	5.69	25.23	275	275	.0673
40	10.62	32.920	5.69														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , STATION 308-05 , 36-19.8. N, 125-25.3. E, DEC.17.1980, 06.40 WST, DEPTH 50 , COLOR , TRANS. . .																	
WAVE 4, SWELL 2, WIND NW 4, BARO 1029.2, AIR TEMP. DRY 4.0, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	10.10	32.770	6.20							0	10.10	32.770	6.20	25.22	276	276	.0000
10	10.14	32.860	5.76							10	10.14	32.860	5.76	25.28	270	270	.0273
20	10.05	32.920	5.73							20	10.05	32.920	5.73	25.34	264	264	.0540
30	10.01	32.920	6.06							30	10.01	32.920	6.06	25.35	263	264	.0805
47	10.13	32.830	5.95														
KOREA , STATION 308-06 , 36-19.8. N, 125-12.4. E, DEC.17.1980, 04.55 WST, DEPTH 50 , COLOR , TRANS. . .																	
WAVE 4, SWELL 2, WIND NW 4, BARO 1029.2, AIR TEMP. DRY 4.2, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	10.19	32.830	6.16							0	10.19	32.830	6.16	25.25	273	273	.0000
10	10.24	32.740	6.18							10	10.24	32.740	6.18	25.17	280	280	.0277
20	10.16	32.760	5.89							20	10.16	32.760	5.89	25.20	278	278	.0556
30	10.12	32.720	5.77							30	10.12	32.720	5.77	25.17	280	280	.0836
55	10.18	32.740	5.82							50	10.17	32.736	5.81	25.18	279	280	.1397
KOREA , STATION 308-07 , 36-19.8. N, 125-00.0. E, DEC.17.1980, 03.05 WST, DEPTH 60 , COLOR , TRANS. . .																	
WAVE 4, SWELL 2, WIND NW 4, BARO 1029.1, AIR TEMP. DRY 4.2, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	10.22	32.740	6.81							0	10.22	32.740	6.81	25.17	280	280	.0000
10	10.26	32.760	5.87							10	10.26	32.760	5.87	25.18	279	279	.0280
20	10.17	32.790	5.77							20	10.17	32.790	5.77	25.22	275	276	.0558
30	10.04	32.900	5.73							30	10.04	32.900	5.73	25.33	265	265	.0829
50	10.03	32.880	5.78							50	10.03	32.880	5.78	25.31	267	267	.1362
65	10.08	32.850	6.27														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KORFA , STATION 302-00 , 36-19.8. N, 124-47.6. E, DEC.17.1980, 01.20 KST, DEPTH 76 , COLOR , TRANS. ,																	
WAVE 4, SWELL 2, WIND NW 4, BARO 1029. , AIR TEMP. DRY 3.0, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	9.95	32.830	5.91							0	9.95	32.830	5.91	25.29	269	269	.0000
10	10.00	32.830	5.88							10	10.00	32.830	5.88	25.28	270	270	.0270
20	9.98	32.770	5.77							20	9.98	32.770	5.77	25.24	274	274	.0542
30	9.89	32.850	5.58							30	9.89	32.850	5.58	25.31	267	267	.0813
50	9.98	32.740	5.89							50	9.98	32.740	5.89	25.21	276	277	.1357
73	10.02	32.810	5.91														
KORFA , STATION 302-00 , 36-19.8. N, 124-35.1. E, DEC.16.1980, 23.25 KST, DEPTH 83 , COLOR , TRANS. ,																	
WAVE 4, SWELL 3, WIND NW 4, BARO 1029.1, AIR TEMP. DRY 4.0, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	9.86	32.760	6.21							0	9.86	32.760	6.21	25.25	273	272	.0000
10	9.77	32.900	5.89							10	9.77	32.900	5.89	25.37	261	261	.0267
20	9.83	32.810	5.69							20	9.83	32.810	5.69	25.29	269	269	.0877
30	9.81	32.790	5.73							30	9.81	32.790	5.73	25.28	270	270	.0802
50	9.40	32.770	5.69							50	9.40	32.770	5.69	25.33	265	265	.1339
80	9.01	32.760	5.77							75	9.08	32.762	5.76	25.38	261	262	.1999
KORFA , STATION 308-10 , 36-19.8. N, 124-23.0. E, DEC.16.1980, 21.35 KST, DEPTH 82 , COLOR , TRANS. ,																	
WAVE 4, SWELL 3, WIND NW 4, BARO 1029. , AIR TEMP. DRY 3.7, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	9.58	32.790	5.95							0	9.58	32.790	5.95	25.32	266	266	.0000
10	9.64	32.880	5.77							10	9.64	32.880	5.77	25.38	260	260	.0264
20	9.71	32.900	7.10							20	9.71	32.900	7.10	25.38	260	260	.0524
30	9.48	32.860	7.15							30	9.48	32.860	7.15	25.39	259	260	.0785
50	9.35	32.830	5.69							50	9.35	32.830	5.69	25.39	260	260	.1306
70	9.08	32.830	5.96							75	9.03	32.830	5.92	25.44	255	256	.1952

309선 해양관측성적

Oceanographic Data. Line 309

Oceanographic Data. Line 309																	
OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

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KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, FEB.19.1980, 07.55 KST, DEPTH 20 , COLOR 8, TRANS. 1.3,
WAVE 3, SWELL 2, WIND N 3, BARO 1026. , AIR TEMP. DRY 7.0, WFT . , CLOUD. TYPE CI, AMT 2, WEATHER B .

0	3.00	32.830	7.47							0	3.00	32.830	7.47	26.18	184	184	.0000
10	3.10	32.850	7.42							10	3.10	32.850	7.42	26.19	184	184	.0184
20	3.18	32.860	7.37							20	3.18	32.860	7.37	26.19	184	184	.0368
24	3.20	32.860	7.39														

KOREA , HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, FEB.19.1980, 09.35 KST, DEPTH 43 , COLOR 7, TRANS. 3.0,
WAVE 3, SWELL 2, WIND NW 3, BARO 1027.5, AIR TEMP. DRY 5.5, WFT . , CLOUD. TYPE CI, AMT 3, WEATHER B ,

0	3.32	32.880	7.37							0	3.32	32.880	7.37	26.19	183	183	.0000
10	3.46	32.920	7.37							10	3.46	32.920	7.37	26.21	182	181	.0183
20	3.92	32.940	7.37							20	3.92	32.940	7.37	26.18	184	184	.0366
30	3.43	32.940	7.42							30	3.43	32.940	7.42	26.23	180	180	.0548
40	3.40	32.970	7.47														

KOREA , HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.3. E, FEB.19.1980, 11.15 KST, DEPTH 52 , COLOR 7, TRANS. 4.0,
WAVE 3, SWELL 2, WIND NW 3, BARO 1027.7, AIR TEMP. DRY 4.8, WFT . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	4.04	32.950	7.58							0	4.04	32.950	7.58	26.18	185	184	.0000
10	4.07	32.990	7.68							10	4.07	32.990	7.68	26.20	182	182	.0184
20	4.08	32.010	7.37							20	4.08	32.010	7.37	26.22	181	180	.0365
30	4.08	32.010	7.22							30	4.05	33.010	7.22	26.22	180	180	.0546
40	4.09	33.030	7.27														

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-17.0. E, FEB.22,1980, 07.35 KST, DEPTH 55 , COLOR 5, TRANS. 6.5,																								
WAVE 3, SWELL 2, WIND N 3, BARO 1031.6, AIR TEMP. DRY 1.5, WET , CLOUD. TYPE CI, AMT 1, WEATHER F ,																								
0	4.30	32.970	7.12							0	4.30	32.970	7.12	26.17	186	185	.0000							
10	4.28	32.970	7.37							10	4.28	32.970	7.77	26.17	185	185	.0186							
20	4.31	32.970	7.32							20	4.31	32.970	7.32	26.16	186	186	.0372							
30	4.30	32.990	7.25							30	4.30	32.990	7.25	26.18	184	184	.0557							
50	4.28	32.990	7.25							50	4.28	32.990	7.25	26.18	184	184	.0926							
KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, FEB.22,1980, 09.20 KST, DEPTH 67 , COLOR 4, TRANS. 6.5,																								
WAVE 3, SWELL 2, WIND N 3, BARO 1032.5, AIR TEMP. DRY 3.5, WET , CLOUD. TYPE CI, AMT 2, WEATHER B ,																								
0	4.30	32.950	7.37							0	4.30	32.950	7.37	26.15	187	187	.0000							
10	4.32	32.990	7.27							10	4.32	32.990	7.27	26.18	184	184	.0186							
20	4.40	32.990	7.22							20	4.40	32.990	7.22	26.17	185	185	.0371							
30	4.42	33.010	7.27							30	4.42	33.010	7.27	26.18	184	184	.0556							
50	4.48	33.030	7.22							50	4.48	33.030	7.22	26.19	183	183	.0924							
63	4.41	33.030	7.07																					
KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, FEB.22,1980, 11.10 KST, DEPTH 65 , COLOR 4, TRANS. 7.5,																								
WAVE 3, SWELL 2, WIND NW 3, BARO 1033. , AIR TEMP. DRY 3.0, WET , CLOUD. TYPE CI, AMT 1, WEATHER B ,																								
0	4.98	32.990	7.13							0	4.98	32.990	7.13	26.11	191	191	.0000							
10	4.97	33.010	7.42							10	4.97	33.010	7.42	26.13	189	189	.0191							
20	4.99	33.010	7.20							20	4.99	33.010	7.20	26.12	190	190	.0380							
30	4.88	33.040	7.30							30	4.88	33.040	7.30	26.16	186	186	.0569							
50	4.98	33.060	7.27							50	4.98	33.060	7.27	26.16	186	186	.0942							
60	4.90	33.060	7.12																					

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 124-47.8. E, FEB.22.1980, 12.55 KST, DEPTH 65 , COLOR 3, TRANS. 10.0.																	
WAVE	2, SWELL	1, WIND NW	2, BARO 1032.5, AIR TEMP. DRY	3.5, WET													
0	5.05	33.030	7.17							0	5.05	33.030	7.17	26.13	189	189	.0000
10	5.08	33.040	7.07							10	5.08	33.040	7.07	26.14	188	188	.0189
20	5.10	33.060	7.12							20	5.10	33.060	7.12	26.15	187	187	.0377
30	5.11	33.060	7.09							30	5.11	33.060	7.09	26.15	187	187	.0565
50	5.08	33.080	7.17							50	5.08	33.080	7.17	26.17	185	186	.0938
60	5.10	33.100	7.07														
KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, FEB.22.1980, 14.45 KST, DEPTH 81 , COLOR 3, TRANS. 10.5.																	
WAVE	2, SWELL	1, WIND NW	2, BARO 1032. , AIR TEMP. DRY	5.0, WET													
0	5.40	33.080	7.17							0	5.40	33.080	7.17	26.13	189	189	.0000
10	5.38	33.060	7.17							10	5.38	33.060	7.17	26.12	190	190	.0190
20	5.24	33.080	7.12							20	5.24	33.080	7.12	26.15	187	187	.0379
30	5.30	33.100	7.12							30	5.30	33.100	7.12	26.16	186	186	.0566
50	5.18	33.080	7.07							50	5.18	33.080	7.07	26.16	186	187	.0940
75	5.20	33.100	7.07							75	5.20	33.100	7.07	26.17	185	186	.1407
KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-45.1. E, FEB.22.1980, 16.30 KST, DEPTH 83 , COLOR 3, TRANS. 11.0.																	
WAVE	2, SWELL	1, WIND NW	2, BARO 1030.5, AIR TEMP. DRY	6.5, WET													
0	5.43	33.040	7.27							0	5.43	33.040	7.27	26.10	192	192	.0000
10	5.41	33.060	7.32							10	5.41	33.060	7.32	26.11	191	190	.0192
20	5.39	33.080	7.37							20	5.39	33.080	7.37	26.13	189	189	.0382
30	5.42	33.100	7.22							30	5.42	33.100	7.22	26.14	188	188	.0570
50	5.36	33.120	7.12							50	5.36	33.120	7.12	26.17	185	186	.0945
60	5.40	33.120	7.07							75	5.39	33.120	7.08	26.16	186	186	.1411

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D-DY
KOREA , HAN RA SAN , STATION 309-10 , 35-51.7. N, 124-22.8. E, FEB.22.1986, 18.20 KST, DEPTH 80 , COLOR , TFANS. , .																
WAVE 2, SWELL 1, WIND W 2, BARO 1031. , AIR TEMP. DRY 3.4, WET . , CLOUD. TYPE , AMT , WEATHER ,																
0	5.52	33.060	7.13							0	5.52	33.060	7.13	26.10	192	191 .0000
10	5.48	33.080	7.58							10	5.48	33.080	7.58	26.12	190	.0191
20	5.44	33.100	7.32							20	5.44	33.100	7.32	26.14	188	.0380
30	5.51	33.100	7.17							30	5.51	33.100	7.17	26.13	189	.0569
50	5.46	33.080	7.47							50	5.46	33.080	7.47	26.12	190	.0948
75	5.43	33.130	7.22							75	5.43	33.130	7.22	26.17	185	.1419
85	5.48	33.150	7.22													

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KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, APR.16.1980, 06.00 KST, DEPTH 28 , COLOR , TFANS. , .																
WAVE 2, SWELL 1, WIND S 2, BARO 1018. , AIR TEMP. DRY 5.1, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																
0	6.20	32.700	7.17							0	6.20	32.700	7.17	25.74	227	226 .0000
10	6.24	32.590	7.12							10	6.24	32.590	7.12	25.64	235	.0231
20	6.16	32.610	7.17							20	6.16	32.610	7.17	25.67	233	.0466
25	6.12	32.610	6.87													
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 126-02.0. E, APR.16.1980, 07.40 KST, DEPTH 45 , COLOR 7, TFANS. 2.0.																
WAVE 2, SWELL 1, WIND SE 2, BARO 1017.5, AIR TEMP. DRY 6.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																
0	5.85	32.680	7.17							0	5.85	32.680	7.17	25.76	224	.0000
10	5.91	32.700	7.17							10	5.91	32.700	7.17	25.77	223	.0224
20	5.90	32.700	7.12							20	5.90	32.700	7.12	25.77	223	.0447
70	6.00	32.650	7.09							30	6.00	32.650	7.09	25.72	228	.0673
42	5.98	32.700	7.09													

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.2. E, APR.16.1980, 08.20 KST, DEPTH 57 , COLOR 6, TRANSP. 3.8,																		
WAVE 3, SWELL 2, WIND SE 2, BARO 1017. , AIR TEMP. DRY 7.1, WET . , CLOUD. TYPE 15, AMT 10, WEATHER R ,																		
0	6.05	32.760	7.37							0	6.05	32.760	7.37	25.80	220	220	.0000	
10	6.00	32.770	7.27							10	6.00	32.770	7.27	25.81	219	219	.0220	
20	5.82	32.790	7.12							20	5.82	32.790	7.12	25.85	215	215	.0437	
30	5.90	32.770	7.07							30	5.90	32.770	7.07	25.83	218	218	.0654	
50	5.88	32.770	7.07							50	5.88	32.770	7.07	25.83	218	218	.1091	
KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, APR.16.1980, 11.05 KST, DEPTH 52 , COLOR 6, TRANSP. 6.0,																		
WAVE 4, SWELL 3, WIND SE 3, BARO 1016. , AIR TEMP. DRY 7.6, WET . , CLOUD. TYPE C1, AMT 10, WEATHER C ,																		
0	6.00	32.860	6.87							0	6.00	32.860	6.87	25.89	212	212	.0000	
10	6.00	32.900	7.17							10	6.00	32.900	7.17	25.92	209	209	.0211	
20	6.00	32.940	6.97							20	6.00	32.940	6.97	25.95	206	206	.0419	
30	6.12	32.920	6.97							30	6.12	32.920	6.97	25.92	209	209	.0627	
50	6.12	32.950	6.87							50	6.12	32.944	6.89	25.94	207	208	.1045	
KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, APR.16.1980, 12.45 KST, DEPTH 67 , COLOR 7, TRANSP. 4.0,																		
WAVE 4, SWELL 3, WIND S 3, BARO 1015. , AIR TEMP. DRY 7.8, WET . , CLOUD. TYPE C1, AMT 8, WEATHER C ,																		
0	6.30	32.990	6.87							0	6.30	32.990	6.87	25.95	206	206	.0000	
10	6.38	32.990	6.82							10	6.38	32.990	6.82	25.94	207	207	.0207	
20	6.35	33.010	6.87							20	6.35	33.010	6.87	25.96	205	205	.0413	
30	6.32	32.990	6.57							30	6.32	32.990	6.57	25.95	206	206	.0620	
50	6.24	32.970	6.67							50	6.24	32.970	6.67	25.94	207	207	.1034	
62	6.20	32.970	6.77															

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	C _d	F (M)
KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, APR.16,1980, 14.35 KST, DEPTH 65 , COLOR 6, TRANS. 6.0,																	
WAVE	4, SWELL	3, WIND SW	3, BARO 1015.	, AIR TEMP. DRY 7.5, WET					, CLOUD. TYPE AS, AMT					, WEATHER C			
0	6.15	37.010	6.92							0	6.15	37.010	6.92	25.99	203	202	.0000
10	6.16	37.010	6.87							10	6.16	37.010	6.87	25.98	203	203	.0203
20	6.18	37.060	6.72							20	6.18	37.060	6.72	26.02	199	199	.0405
30	6.30	37.040	6.77							30	6.30	37.040	6.77	25.99	202	202	.0606
50	6.32	37.060	6.79							50	6.32	37.060	6.79	26.00	201	201	.1011
65	6.30	37.080	6.67														
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, APR.16,1980, 16.20 KST, DEPTH 65 , COLOR 3, TRANS. 9.0,																	
WAVE	3, SWELL	2, WIND NW	3, BARO 1014.8,	AIR TEMP. DRY 9.5, WET					, CLOUD. TYPE AS, AMT					, WEATHER BC,			
0	6.80	37.040	7.04							0	6.80	37.040	7.04	25.93	208	208	.0000
10	6.55	37.100	6.94							10	6.55	37.100	6.94	26.01	201	201	.0205
20	6.48	37.120	6.89							20	6.48	37.120	6.89	26.03	199	198	.0405
30	6.32	37.130	6.94							30	6.32	37.130	6.94	26.06	196	196	.0603
50	6.32	37.170	6.94							50	6.32	37.170	6.94	26.09	192	193	.0993
62	6.30	37.150	6.63														
KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, APR.16,1980, 18.10 KST, DEPTH 80 , COLOR 3, TRANS. 8.0,																	
WAVE	3, SWELL	2, WIND NW	3, BARO 1014.5,	AIR TEMP. DRY 8.4, WET					, CLOUD. TYPE AS, AMT					, WEATHER C			
0	6.60	37.080	7.04							0	6.60	37.080	7.04	25.98	203	203	.0000
10	6.52	37.080	7.04							10	6.52	37.080	7.04	25.99	202	202	.0203
20	6.55	37.080	6.73							20	6.55	37.080	6.73	25.99	202	202	.0405
30	6.48	37.120	6.48							30	6.48	37.120	6.48	26.03	199	199	.0606
50	6.50	37.170	6.43							50	6.50	37.170	6.43	26.07	195	195	.1001
75	6.40	37.220	6.53							75	6.40	37.220	6.53	26.12	190	191	.1485

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 309-02 , 35-51.3. N, 124-35.1. E, APR.16.1980, 19.55 KST, DEPTH 80 , COLOR , TRANS. . .
 WAVE 4, SWELL 3, WIND LW 3, EARD 1016. , AIR TEMP. DRY 7.7, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 6.72 33.040 7.14 0 6.72 33.040 7.14 25.94 207 207 .0000
 10 6.72 33.100 6.94 10 6.72 33.100 6.94 25.98 203 203 .0206
 20 6.65 33.080 6.73 20 6.65 33.080 6.73 25.98 204 204 .0409
 30 6.48 33.150 6.76 30 6.48 33.150 6.76 26.05 196 196 .0610
 50 6.40 33.210 6.53 50 6.40 33.210 6.53 26.11 191 191 .0998
 75 6.40 33.240 6.48 75 6.40 33.240 6.48 26.13 189 189 .1475

KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, APR.16.1980, 21.45 KST, DEPTH 87 , COLOR , TRANS. . .
 WAVE 4, SWELL 3, WIND NW 4, EARD 1018. , AIR TEMP. DRY 7.5, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 7.00 33.130 6.84 0 7.00 33.130 6.84 25.97 204 204 .0000
 10 6.78 33.100 6.73 10 6.78 33.100 6.73 25.98 204 204 .0204
 20 6.63 33.100 6.63 20 6.63 33.100 6.63 25.99 202 202 .0408
 30 6.65 33.150 6.84 30 6.65 33.150 6.84 26.03 198 198 .0608
 50 6.60 33.190 6.68 50 6.60 33.190 6.68 26.07 195 195 .1003
 75 6.61 33.240 6.68 75 6.61 33.240 6.68 26.11 191 191 .1488
 83 6.50 33.280 6.53

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KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, JUN.12.1980, 07.00 KST, DEPTH 31 , COLOR 6, TRANS. 6.0,
 WAVE 1, SWELL 1, WIND SW 1, EARD 1010.5, AIR TEMP. DRY 17.2, WET . , CLOUD. TYPE AS, AMT 7, WEATHER BC,
 0 16.70 32.250 5.67 0 16.70 32.250 5.67 23.50 440 440 .0000
 10 14.00 32.300 5.77 10 14.00 32.300 5.77 24.12 380 380 .0410
 20 13.54 32.290 5.82 20 13.54 32.290 5.82 24.21 372 372 .0786
 25 17.12 32.340 5.98

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 309-03 , 35-51.7. N, 126-02.0. E, JUN.12.1980, 08.40 KST, DEPTH 45 , COLOR 4, TRANS. 16.0, WAVE 1, SWELL 1, WIND SW 1, BARO 1010.5, AIR TEMP. DRY 18.6, WET . , CLOUD. TYPE AS, AMT 7, WEATHER FC,																		
0	16.90	32.470	5.77							0	16.90	32.470	5.77	23.62	428	428	.0000	
10	14.41	32.410	5.72							10	14.41	32.410	5.72	24.12	380	380	.0404	
20	13.85	32.430	5.77							20	13.85	32.430	5.77	24.26	367	368	.0778	
30	13.39	32.480	5.96							30	13.39	32.480	5.96	24.39	355	355	.1140	
42	12.62	32.520	5.86															
KOREA , HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.3. E, JUN.12.1980, 10.20 KST, DEPTH 53 , COLOR 4, TRANS. 14.0, WAVE 1, SWELL 1, WIND SW 1, BARO 1010.5, AIR TEMP. DRY 18.7, WET . , CLOUD. TYPE AS, AMT 9, WEATHER C ,																		
0	17.15	32.410	5.66							0	17.15	32.410	5.66	23.52	438	438	.0000	
10	15.50	32.430	5.96							10	15.50	32.430	5.96	23.91	401	401	.0420	
20	10.83	32.450	5.71							20	10.83	32.450	5.71	24.84	311	311	.0776	
30	9.72	32.480	5.86							30	9.72	32.480	5.86	25.05	291	292	.1078	
50	9.70	32.470	5.66							50	9.70	32.470	5.66	25.05	292	292	.1663	
KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, JUN.12.1980, 12.05 KST, DEPTH 58 , COLOR 4, TRANS. 16.0, WAVE 1, SWELL 1, WIND SW 1, BARO 1010.5, AIR TEMP. DRY 18.7, WET . , CLOUD. TYPE AS, AMT 9, WEATHER C ,																		
0	17.20	32.610	5.91							0	17.20	32.610	5.91	23.66	424	424	.0000	
10	15.59	32.630	5.45							10	15.59	32.630	5.45	24.04	388	388	.0407	
20	10.92	32.700	5.96							20	10.92	32.700	5.96	25.02	294	294	.0748	
30	9.80	32.740	6.06							30	9.80	32.740	6.06	25.24	273	274	.1033	
55	9.62	32.720	6.06							50	9.66	32.724	6.06	25.25	272	273	.1590	

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, JUN.12.1966, 13.45 PST, DEPTH 66 , COLOR 4, TRANS. 13.0.																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 18.0, WET . , CLOUD. TYPE AS, AMT 9, WEATHER C ,																	
0	17.10	32.650	5.86							0	17.10	32.650	5.86	23.71	419	419	.0000
10	15.45	32.650	5.66							10	15.45	32.650	5.66	24.09	384	384	.0402
20	9.39	32.770	6.26							20	9.39	32.770	6.26	25.33	265	265	.0726
30	9.05	32.770	6.06							30	9.05	32.770	6.06	25.39	260	260	.0989
50	8.95	32.830	6.46							50	8.95	32.830	6.46	25.45	254	254	.1504
66	8.90	32.810	6.16														
KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, JUN.12.1980, 15.35 PST, DEPTH 66 , COLOR 4, TRANS. 12.0.																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 18.7, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	17.03	32.720	5.45							0	17.03	32.720	5.45	23.78	413	412	.0000
10	14.75	32.680	5.86							10	14.75	32.680	5.86	24.26	367	367	.0390
20	9.10	32.880	6.08							20	9.10	32.880	6.08	25.47	252	252	.0700
30	8.29	32.940	6.06							30	8.29	32.940	6.06	25.64	236	236	.0945
50	8.17	32.900	5.96							50	8.17	32.900	5.96	25.62	237	238	.1420
63	8.12	32.950	6.06														
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, JUN.12.1980, 17.20 PST, DEPTH 67 , COLOR 5, TRANS. 11.0.																	
WAVE 2, SWELL 1, WIND SE 2, BARO 1010.6, AIR TEMP. DRY 18.6, WET . , CLOUD. TYPE AS, AMT 9, WEATHER C ,																	
0	17.32	32.740	5.56							0	17.32	32.720	5.56	23.71	419	419	.0000
10	15.85	32.700	5.56							10	15.85	32.700	5.56	24.04	388	388	.0404
20	9.80	32.860	6.06							20	9.80	32.860	6.06	25.34	264	264	.0731
30	8.15	32.970	6.06							30	8.15	32.970	6.06	25.68	232	232	.0980
50	7.82	32.990	6.11							50	7.82	32.990	6.11	25.74	226	226	.1439
64	7.79	32.940	6.16														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, JUN.12.1980, 19.10 KST, DEPTH 81 , COLOR 3, TRANS. 15.0,																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 18.5, WET , , CLOUD. TYPE AS, AMT 7, WEATHER BC,																	
0	17.35	32.770	5.45							0	17.35	32.770	5.45	23.74	416	416	.0000
10	15.91	32.770	5.56							10	15.91	32.770	5.56	24.08	385	384	.0401
20	13.82	32.760	5.66							20	13.82	32.760	5.66	24.52	343	343	.0765
30	7.89	33.150	5.86							30	7.89	33.150	5.86	25.86	215	215	.1044
50	7.45	33.130	5.76							50	7.45	33.130	5.76	25.91	210	211	.1471
75	7.49	33.150	5.81							75	7.49	33.150	5.81	25.92	209	210	.1998
KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, JUN.12.1980, 20.55 KST, DEPTH 82 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 18.4, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	17.60	32.850	5.45							0	17.60	32.850	5.45	23.75	416	416	.0000
10	16.11	32.790	5.66							10	16.11	32.790	5.66	24.05	387	387	.0402
20	14.35	32.830	5.66							20	14.35	32.830	5.66	24.46	348	348	.0770
30	7.59	33.150	5.76							30	7.59	33.150	5.76	25.90	211	211	.1050
50	7.51	33.220	5.37							50	7.51	33.220	5.37	25.97	204	205	.1417
77	7.49	33.190	5.66							75	7.49	33.192	5.64	25.95	206	207	.1983
KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, JUN.12.1980, 22.45 KST, DEPTH 89 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 17.0, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	17.52	32.900	5.71							0	17.52	32.900	5.71	23.80	411	410	.0000
10	16.41	32.850	5.56							10	16.41	32.850	5.56	24.02	389	389	.0400
20	15.01	32.920	5.61							20	15.01	32.920	5.61	24.39	355	355	.0773
30	7.79	33.210	5.66							30	7.79	33.210	5.66	25.92	209	209	.1055
50	7.35	33.240	6.06							50	7.35	33.240	6.06	26.01	201	201	.1467
75	7.45	33.280	6.77							75	7.45	33.280	6.77	26.02	198	200	.1949
85	7.35	33.240	5.86														

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

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KOREA HAN RA SAN 1, STATION 309-01, 35-51.3. N, 126-14.7. E, AUG. 8.1980, 08.40 KST, DEPTH 29, COLOR 5, TRANS. 6.0,

WAVE 2, SWELL 1, WIND E 3, BARO 1000.5, AIR TEMP. DRY 20.7, WET ., CLOUD. TYPE AS, AMT 7, WEATHER BC,

0	20.65	31.890	5.20							0	20.65	31.890	5.20	22.25	559	559	.0000
10	20.49	31.940	5.10							10	20.49	31.940	5.10	22.33	552	552	.0556
20	18.45	32.630	5.08							20	18.45	32.630	5.08	23.37	452	452	.1058
25	18.41	32.760	5.19														

KOREA HAN RA SAN 2, STATION 309-02, 35-51.3. N, 126-02.0. E, AUG. 8.1980, 10.20 KST, DEPTH 46, COLOR 4, TRANS. 8.0,

WAVE 2, SWELL 1, WIND E 3, BARO 1009.9, AIR TEMP. DRY 23.2, WET ., CLOUD. TYPE AS, AMT 7, WEATHER BC,

0	21.51	32.020	5.02							0	21.51	32.020	5.02	22.12	572	572	.0000
10	21.50	32.050	5.20							10	21.50	32.050	5.20	22.14	569	569	.0571
20	18.50	32.700	5.19							20	18.50	32.700	5.19	23.41	448	448	.1080
30	17.61	33.040	5.06							30	17.61	33.040	5.06	23.89	402	402	.1506
43	16.80	33.040	5.15														

KOREA HAN RA SAN 3, STATION 309-03, 35-51.3. N, 125-49.3. E, AUG. 8.1980, 12.00 KST, DEPTH 54, COLOR 4, TRANS. 12.0,

WAVE 3, SWELL 2, WIND E 3, BARO 1010., AIR TEMP. DRY 23.7, WET ., CLOUD. TYPE AS, AMT 8, WEATHER C,

0	21.82	32.630	5.10							0	21.82	32.630	5.10	22.49	536	536	.0000
10	21.75	32.570	5.09							10	21.75	32.570	5.09	22.47	538	538	.0537
20	17.59	33.120	5.05							20	17.59	33.120	5.05	23.95	396	396	.1005
30	16.10	33.310	5.25							30	16.10	33.310	5.25	24.45	349	349	.1379
50	16.00	33.330	5.41							50	16.00	33.330	5.41	24.48	346	347	.2076

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-17.0. E, AUG. 8.1980, 13.45 KST, DEPTH 56 , COLOP 4, TRANS. 12.0, WAVE 3, SWELL 2, WIND E 3, BARO 1010. , AIR TEMP. DRY 23.8, WET . , CLOUD. TYPE AS, AMT 8, WEATHER C ,																	
0	21.30	32.660	5.13							0	21.30	32.660	5.13	22.66	520	520	.0000
10	21.29	32.650	5.10							10	21.29	32.650	5.10	22.65	520	520	.0521
20	15.95	33.210	5.56							20	15.95	33.210	5.56	24.40	353	353	.0958
30	15.62	33.390	5.36							30	15.62	33.390	5.36	24.62	333	334	.1302
53	15.00	33.400	5.61							50	15.02	33.399	5.58	24.74	321	322	.1959
KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, AUG. 8.1980, 15.25 KST, DEPTH 69 , COLOR 3, TRANS. 15.0, WAVE 3, SWELL 2, WIND E 3, BARO 1009. , AIR TEMP. DRY 24.6, WET . , CLOUD. TYPE AS, AMT 9, WEATHER C ,																	
0	22.51	32.540	5.41							0	22.51	32.540	5.41	22.23	561	560	.0000
10	22.39	32.480	6.12							10	22.39	32.480	6.12	22.22	562	562	.0562
20	16.39	33.120	5.82							20	16.39	33.120	5.82	24.24	369	370	.1028
30	17.38	33.370	5.10							30	13.38	33.370	5.10	25.06	289	290	.1318
50	13.80	33.400	5.46							50	13.80	33.400	5.46	25.01	295	296	.1945
65	17.72	33.500	5.41														
KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, AUG. 8.1980, 17.20 KST, DEPTH 67 , COLOP 3, TRANS. 13.0, WAVE 2, SWELL 1, WIND SW 3, BARO 1009. , AIR TEMP. DRY 24.5, WET . , CLOUD. TYPE AS, AMT 6, WEATHER PC ,																	
0	22.70	32.390	5.10							0	22.70	32.390	5.10	22.07	577	576	.0000
10	22.65	32.360	5.31							10	22.65	32.360	5.31	22.06	577	577	.0577
20	15.99	33.310	5.92							20	15.99	33.310	5.92	24.47	347	347	.1040
30	17.95	33.420	5.42							30	13.95	33.480	5.42	25.04	292	293	.1360
50	17.05	33.440	5.30							50	13.05	33.440	5.30	25.20	278	279	.1933
64	12.90	33.310	5.71														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 124-00.0. E, AUG. 8, 1980, 19.05 YST, DEPTH 66 , COLOP 3, TRANS. 13.0.																	
WAVE 2, SWELL 1, WIND SE 3, EARD 1009.5, AIR TEMP. DRY 23.7, WET , , CLOUD. TYPE AS, AMT 7, WEATHER FC,																	
0	27.19	32.030	5.00							0	23.19	32.030	5.00	21.65	616	616	.0000
10	23.05	32.110	5.50							10	23.05	32.110	5.50	21.75	606	606	.0611
20	16.75	33.030	5.97							20	16.75	33.030	5.97	24.08	384	384	.1107
30	14.91	33.440	5.76							30	14.91	33.440	5.76	24.81	315	315	.1657
50	12.40	33.510	5.71							50	12.40	33.510	5.71	25.38	261	261	.2035
63	11.52	33.500	5.82														
KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, AUG. 8, 1980, 20.55 YST, DEPTH 80 , COLOP , TRANS. , ,																	
WAVE 1, SWELL 1, WIND SE 2, EARD 1009.5, AIR TEMP. DRY 23.2, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	23.80	31.960	5.20							0	23.80	31.960	5.20	21.43	638	638	.0000
10	16.52	33.100	6.02							10	16.52	33.100	6.02	24.19	374	374	.0506
20	14.69	33.460	6.43							20	14.69	33.460	6.43	24.87	309	309	.0848
30	13.98	33.600	6.04							30	13.98	33.600	6.04	25.13	284	285	.1145
50	10.48	33.420	5.63							50	10.48	33.420	5.63	25.66	234	235	.1665
75	10.40	33.400	6.32							75	10.40	33.400	6.32	25.66	234	235	.2254
KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, AUG. 8, 1980, 22.45 YST, DEPTH 82 , COLOP , TRANS. , ,																	
WAVE 1, SWELL 1, WIND SE 2, BARO 1009.5, AIR TEMP. DRY 22.7, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	23.55	32.000	5.10							0	23.55	32.000	5.10	21.53	628	628	.0000
10	22.99	31.980	5.09							10	22.99	31.980	5.09	21.67	614	614	.0621
20	17.01	32.740	6.12							20	17.01	32.740	6.12	23.80	411	411	.1134
30	14.02	33.420	6.63							30	14.02	33.420	6.63	24.98	298	299	.1490
50	10.90	33.460	5.51							50	10.99	33.460	5.51	25.60	239	240	.2029
77	10.70	33.390	5.31							75	10.72	33.395	5.32	25.60	240	241	.2632

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-10 , 35-51.3, N, 124-22.2, E, AUG. 9, 1980, 06.40 KST, DEPTH 90 , COLOR , TRANSP. , ,																	
WAVE	1, SWELL	1, WIND SE	2, BARO 1009.5	AIR TEMP. DRY	22.2, WET												
0	24.12	31.000	5.10							0	24.12	31.000	5.10	21.75	645	645	.0000
10	22.98	32.020	5.61							10	22.98	32.020	5.61	21.71	611	611	.0628
20	18.73	32.050	5.87							20	18.73	32.050	5.87	21.55	475	475	.1152
30	15.18	33.390	6.10							30	15.18	33.390	6.10	24.71	324	324	.1522
50	17.79	33.550	5.20							50	13.79	33.550	5.20	25.13	284	285	.2143
75	11.34	37.440	5.31							75	11.34	33.440	5.31	25.52	247	248	.2811
85	10.95	37.440	5.31														

10월(October)

KOREA , HAN RA SAN , STATION 309-01 , 35-51.3, N, 124-14.7, E, OCT.10, 1980, 17.45 KST, DEPTH 20 , COLOR , TRANSP. , ,																	
WAVE	3, SWELL	1, WIND NE	4, BARO 1015. ,	AIR TEMP. DRY	16.0, WET												
0	19.85	32.120	5.33							0	18.65	32.120	5.33	22.88	498	498	.0000
10	18.81	32.140	5.33							10	18.81	32.140	5.33	22.91	496	496	.0497
20	18.85	32.660	6.22							20	18.85	32.680	6.22	23.31	458	458	.0975
25	19.80	32.770	5.53														

KOREA , HAN RA SAN , STATION 309-02 , 35-51.3, N, 126-02.0, E, OCT.10, 1980, 19.25 KST, DEPTH 40 , COLOR , TRANSP. , ,																	
WAVE	4, SWELL	2, WIND NE	4, BARO 1016. ,	AIR TEMP. DRY	15.2, WET												
0	19.69	32.130	5.38							0	18.69	32.180	5.38	22.97	490	490	.0000
10	19.43	32.270	5.33							10	18.43	32.270	5.33	23.10	477	477	.0484
20	19.19	32.660	5.03							20	18.19	32.680	5.03	27.47	442	442	.0945
30	19.01	32.970	5.08							30	18.01	32.970	5.08	23.74	417	417	.1375
43	17.95	32.970	4.62														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-49.3. E, OCT.12.1980, 07.20 KST, DEPTH 54 , COLOR 4, TRANS. 10.0.																	
WAVE 4, SWELL 2, WIND S 4, EARO 1020. , AIP TEMP. DRY 16.0, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	17.73	32.470	5.18							0	17.73	32.470	5.18	27.42	447	446	.0000
10	16.99	32.500	5.03							10	16.99	32.500	5.03	27.62	428	478	.0438
20	16.85	32.120	5.53							20	16.85	32.120	5.53	24.13	379	380	.0842
30	15.54	32.200	5.23							30	15.54	32.280	5.23	24.55	339	340	.1202
51	15.49	32.330	4.52							50	15.49	32.328	4.55	24.60	335	376	.1879
KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-47.0. E, OCT.15.1980, 15.20 KST, DEPTH 59 , COLOR 3, TRANS. 15.0.																	
WAVE 2, SWELL 1, WIND NE 3, EARO 1022. , AIP TEMP. DRY 19.3, WET . , CLOUD. TYPE AS, AMT 3, WEATHER EC,																	
0	18.29	32.590	5.33							0	18.29	32.590	5.33	23.38	451	451	.0000
10	17.72	32.570	5.33							10	17.72	32.570	5.33	23.50	439	439	.0445
20	17.15	32.240	5.03							20	17.15	32.240	5.03	24.15	377	378	.0854
30	14.82	32.310	4.52							30	14.82	32.310	4.52	24.73	322	323	.1205
55	14.69	32.420	4.62							50	14.72	32.398	4.60	24.82	314	315	.1843
KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, OCT.15.1980, 17.00 KST, DEPTH 69 , COLOR 3, TRANS. 14.0.																	
WAVE 2, SWELL 1, WIND NE 3, EARO 1021.5, AIR TEMP. DRY 18.4, WET . , CLOUD. TYPE AS, AMT 3, WEATHER EC,																	
0	19.39	32.320	5.13							0	19.39	32.320	5.13	22.90	497	496	.0000
10	18.35	32.410	5.34							10	18.35	32.410	5.34	23.23	465	465	.0481
20	18.61	32.030	5.32							20	18.61	32.030	5.32	23.64	426	427	.0928
30	18.49	32.150	5.33							30	18.49	32.150	5.33	23.76	415	415	.1350
50	14.34	32.310	4.92							50	14.34	32.310	4.92	24.83	313	313	.2080
66	14.14	32.400	4.82														

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, OCT.15.1980, 18.50 KST, DEPTH 66 , COLOR , TRANS. ,																								
WAVE 2, SWELL 1, WIND SW 3, BARO 1021.0, AIR TEMP. DRY 18.7, WET																								
0	19.41	32.320	5.23							0	19.41	32.320	5.23	22.89	497	497	.0000							
10	18.79	32.410	5.43							10	18.79	32.410	5.43	23.12	476	476	.0487							
20	18.69	33.370	5.28							20	18.69	33.370	5.28	23.88	404	404	.0927							
30	18.52	33.480	5.33							30	18.52	33.480	5.33	24.00	392	392	.1326							
50	14.59	33.460	4.92							50	14.59	33.460	4.92	24.89	307	308	.2027							
63	13.25	33.390	4.72																					
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, OCT.15.1980, 20.35 KST, DEPTH 69 , COLOR , TRANS. ,																								
WAVE 2, SWELL 1, WIND SW 2, BARO 1021.5, AIR TEMP. DRY 17.9, WET																								
0	18.89	32.160	5.43							0	18.89	32.160	5.43	22.90	496	496	.0000							
10	18.11	32.140	5.43							10	18.11	32.140	5.43	23.08	479	479	.0488							
20	18.19	32.590	5.33							20	18.19	32.590	5.33	23.40	449	449	.0953							
30	17.39	33.030	5.13							30	17.39	33.030	5.13	23.93	398	399	.1377							
50	12.80	33.330	4.52							50	12.80	33.330	4.52	25.16	281	282	.2059							
66	12.39	33.500	4.32																					
KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, OCT.15.1980, 22.25 KST, DEPTH 82 , COLOR , TRANS. ,																								
WAVE 2, SWELL 1, WIND SW 2, BARO 1021.9, AIR TEMP. DRY 16.5, WET																								
0	18.39	32.090	5.53							0	18.39	32.090	5.53	22.97	490	489	.0000							
10	17.59	32.650	5.35							10	17.59	32.650	5.35	23.60	430	430	.0460							
20	17.72	32.700	5.23							20	17.72	32.700	5.23	23.60	430	430	.0891							
30	17.19	33.060	4.82							30	17.19	33.060	4.82	24.00	391	392	.1303							
50	17.59	33.310	4.52							50	13.59	33.310	4.52	24.99	298	299	.1994							
78	12.95	33.460	4.42							75	13.02	33.444	4.43	25.20	277	278	.2717							

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, OCT.16,1980, 00.15 KST, DEPTH 81 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1021.5, AIR TEMP. DRY 16.4, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	18.32	32.480	5.43							0	18.32	32.480	5.43	23.29	460	459	.0000
10	17.79	32.390	5.53							10	17.79	32.390	5.53	23.35	454	454	.0457
20	17.80	32.360	5.53							20	17.80	32.360	5.53	23.32	456	457	.0913
30	17.29	32.740	5.08							30	17.29	32.740	5.08	23.74	417	418	.1350
50	14.32	33.480	5.34							50	14.32	33.480	5.34	24.07	300	301	.2070
78	13.16	33.400	5.03							75	13.28	33.409	5.06	25.12	285	286	.2804
KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, OCT.16,1980, 02.10 KST, DEPTH 89 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1021.5, AIR TEMP. DRY 16.3, WET , , CLOUD. TYPE , AMT , WEATHER ,																	
0	18.31	32.340	5.53							0	18.31	32.340	5.53	23.18	470	469	.0000
10	17.65	32.520	5.95							10	17.65	32.520	5.95	23.48	441	441	.0456
20	17.49	32.480	5.53							20	17.49	32.480	5.53	23.49	440	441	.0897
30	17.62	32.730	6.13							30	17.62	33.330	6.13	24.11	382	382	.1309
50	12.05	32.460	5.83							50	12.05	32.480	5.83	25.42	256	257	.1950
75	11.99	32.540	5.23							75	11.99	33.590	5.23	25.52	247	249	.2583
85	11.96	32.590	5.03														

12월 (December)

KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, DEC.17,1980, 17.35 KST, DEPTH 30 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NW 3, BARO 1026. , AIR TEMP. DRY 6.3, WET , , CLOUD. TYPE , AMT , WEATHER BC,																	
0	9.84	32.010	5.65							0	9.79	33.010	5.42	25.44	257	257	.0000
10	9.84	32.040	5.78							10	9.84	33.040	5.78	25.47	252	252	.0253
20	9.80	32.040	5.75							20	9.80	32.990	5.75	25.44	255	255	.0506
27	9.95	32.020	5.61														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, DEC.17.1980, 19.15 KST, DEPTH 44 , COLOR , TRANS. ,																		
WAVE 3, SWELL 1, WIND NW 3, BARO 1026. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE , AMT , WEATHER ,																		
0	9.99	32.920	5.78							0	9.99	32.920	5.78	25.35	263	263	.0000	
10	10.01	32.800	5.87							10	10.01	32.800	5.87	25.26	272	272	.0268	
20	10.00	32.830	5.69							20	10.00	32.830	5.69	25.28	270	270	.0539	
30	9.98	32.810	5.78							30	9.98	32.810	5.78	25.27	271	271	.0810	
40	10.08	32.850	5.96															
KOREA , HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.3. E, DEC.17.1980, 20.55 KST, DEPTH 54 , COLOR , TRANS. ,																		
WAVE 3, SWELL 1, WIND NW 3, BARO 1026.5, AIR TEMP. DRY 6.7, WET , CLOUD. TYPE , AMT , WEATHER ,																		
0	10.24	32.860	6.05							0	10.24	32.860	6.05	25.26	271	271	.0000	
10	10.29	33.060	5.87							10	10.29	33.060	5.87	25.41	257	257	.0265	
20	10.25	33.080	6.81							20	10.25	33.080	6.81	25.43	255	255	.0522	
30	10.23	33.040	5.89							30	10.23	33.040	5.89	25.41	258	258	.0779	
50	10.30	32.920	5.87							50	10.30	32.920	5.87	25.30	268	269	.1307	
KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, DEC.17.1980, 22.40 KST, DEPTH 59 , COLOR , TRANS. ,																		
WAVE 3, SWELL 1, WIND NW 3, BARO 1025.5, AIR TEMP. DRY 6.6, WET , CLOUD. TYPE , AMT , WEATHER ,																		
0	10.59	32.970	6.29							0	10.59	32.970	6.29	25.29	269	269	.0000	
10	10.52	32.940	6.14							10	10.52	32.940	6.14	25.28	270	270	.0270	
20	10.58	32.950	6.09							20	10.58	32.950	6.09	25.28	270	270	.0540	
30	10.55	32.950	5.99							30	10.55	32.950	5.99	25.28	270	270	.0811	
55	10.65	32.920	6.29							50	10.63	32.926	6.23	25.25	273	274	.1356	

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	Q2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-24.4. E, DEC.18.1980, 00.20 KST, DEPTH 68 , COLOR , TPANS. . .																	
WAVE	3, SWELL	1, WIND NW	3, BARO 1025.5, AIR TEMP. DRY	6.7, WET													
0	10.40	32.900	6.19							0	10.40	32.900	6.19	25.27	271	271	.0000
10	10.54	33.130	6.09							10	10.54	33.130	6.09	25.42	256	256	.0264
20	10.51	33.080	6.29							20	10.51	33.080	6.29	25.39	260	260	.0522
30	10.54	33.010	6.10							30	10.54	33.010	6.10	25.33	265	265	.0785
50	10.63	32.990	6.19							50	10.63	32.990	6.19	25.30	268	269	.1321
65	10.52	32.970	6.09														
KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, DEC.18.1980, 02.10 KST, DEPTH 64 , COLOR , TPANS. . .																	
WAVE	3, SWELL	1, WIND NW	3, BARO 1025.5, AIR TEMP. DRY	6.8, WET													
0	10.63	32.950	6.09							0	10.63	32.950	6.09	25.27	271	271	.0000
10	10.78	32.920	6.24							10	10.78	32.920	6.24	25.22	276	276	.0274
20	10.74	32.810	6.19							20	10.74	32.810	6.19	25.14	283	283	.0554
30	10.73	32.900	6.34							30	10.73	32.900	6.34	25.21	276	277	.0834
50	10.84	32.990	6.01							50	10.84	32.990	6.01	25.26	272	272	.1384
61	10.86	33.120	6.04														
KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, DEC.18.1980, 03.55 KST, DEPTH 68 , COLOR , TPANS. . .																	
WAVE	3, SWELL	1, WIND NW	3, BARO 1025.5, AIR TEMP. DRY	6.6, WET													
0	10.40	33.150	6.04							0	10.40	33.150	6.04	25.46	253	252	.0000
10	10.55	33.060	6.18							10	10.55	33.060	6.18	25.37	262	262	.0257
20	10.45	33.030	6.01							20	10.45	33.030	6.01	25.36	262	262	.0520
30	10.49	33.010	5.99							30	10.49	33.010	5.99	25.34	264	265	.0784
50	10.59	32.950	5.94							50	10.59	32.950	5.94	25.27	270	271	.1321
65	10.51	32.970	5.79														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 309-00 , 35-51.7. N, 124-47.8. E, DEC.18.1980, 05.45 KST, DEPTH 82 , COLOR , TRANS. . .																	
WAVE	3, SWELL	1, WIND NW	3, BARO 1024.5	AIR TEMP. DRY	6.7, WET												
0	10.22	32.090	5.99							0	10.22	32.090	5.99	25.37	261	261	.0000
10	10.76	32.070	5.89							10	10.36	32.070	5.89	25.33	265	265	.0264
20	10.26	32.010	5.99							20	10.26	32.010	5.99	25.38	261	261	.0527
30	10.33	32.030	6.04							30	10.33	32.030	6.04	25.38	260	261	.0788
50	10.12	32.150	6.01							50	10.12	32.150	6.01	25.51	248	249	.1298
70	10.17	32.100	5.99							70	10.17	32.100	5.99	25.47	262	262	
KOREA , HAN RA SAN , STATION 309-00 , 35-51.3. N, 124-45.1. E, DEC.18.1980, 07.30 KST, DEPTH 81 , COLOR , TRANS. . .																	
WAVE	3, SWELL	1, WIND NW	3, BARO 1024.8	AIR TEMP. DRY	6.9, WET												
0	10.25	32.050	6.09							0	10.25	32.050	6.09	25.33	265	265	.0000
10	10.28	32.090	5.69							10	10.28	32.090	5.69	25.36	262	262	.0264
20	10.23	32.060	5.89							20	10.23	32.060	5.89	25.42	256	257	.0524
30	9.91	32.170	5.78														
50	9.68	32.060	5.89							50	9.68	32.060	5.89	25.51	248	248	.1267
70	9.46	32.030	5.90							70	9.46	32.033	5.93	25.52	247	248	.1828
KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, DEC.18.1980, 09.20 KST, DEPTH 87 , COLOR , TRANS. 15.0.																	
WAVE	3, SWELL	1, WIND NW	3, BARO 1024.5	AIR TEMP. DRY	7.0, WET												
0	10.18	32.060	6.27							0	10.18	32.060	6.27	25.43	256	255	.0000
10	10.23	32.140	5.89							10	10.23	32.140	5.89	25.48	251	250	.0273
20	10.01	32.210	6.04							20	10.01	32.210	6.04	25.57	242	242	.0500
30	9.82	32.100	6.02							30	9.82	32.100	6.09	25.52	247	247	.0745
50	9.61	32.040	5.89							50	9.61	32.040	5.89	25.51	248	249	.1242
70	9.39	32.030	5.79							70	9.39	32.030	5.79	25.38	260	261	.1881
74	9.18	32.050	5.78														

310선 해양관측성적

Oceanographic Data. Line 310

Oceanographic Data. Line 010																	
OBSERVED									INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, FEB.23.1980, 09.45 KST, DEPTH 59 , COLOR 7, TRANS. 3.5,

WAVE 1, SWELL 1, WIND S 1, BARO 1030. , AIR TEMP. DRY 8.0, WET . , CLOUD. TYPE AS, AMT 7, WEATHER BC,

0	4.68	33.060	7.63							0	4.68	33.060	7.63	26.20	183	182	.0000
10	4.80	33.060	7.47							10	4.80	33.060	7.47	26.18	184	184	.0184
20	3.18	33.080	7.42							20	3.18	33.080	7.42	26.36	167	167	.0359
24	3.10	33.100	7.32														

KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, FEB.23.1980, 09.45 KST, DEPTH 59 , COLOR 6, TRANS. 4.0,

WAVE 1, SWELL 1, WIND SW , BARO 1030.5, AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE AS, AMT 7, WEATHER BC,

0	4.82	33.030	7.68							0	4.82	33.030	7.68	26.16	186	186	.0000
10	3.98	33.010	7.53							10	3.98	33.010	7.53	26.23	180	179	.0183
20	3.60	33.010	7.53							20	3.60	33.010	7.53	26.27	176	176	.0361
30	3.70	33.040	7.42							30	3.70	33.040	7.42	26.28	175	175	.0537
55	3.68	33.060	7.32							50	3.68	33.056	7.24	26.20	173	173	.0866

KOREA , HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, FEB.23.1980, 08.05 KST, DEPTH 70 , COLOR 5, TRANS. 7.0,

WAVE 1, SWELL 1, WIND SW , BARO 1030.5, AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE AS, AMT 7, WEATHER BC,

0	5.88	33.030	7.27							0	5.88	33.030	7.27	26.03	198	198	.0000
10	4.85	33.030	7.32							10	4.85	33.030	7.32	26.15	187	187	.0193
20	4.13	33.060	7.17							20	4.13	33.060	7.17	26.25	177	177	.0375
30	4.38	33.060	7.22							30	4.38	33.060	7.22	26.23	180	180	.0554
50	4.06	33.120	7.37							50	4.06	33.120	7.37	26.31	172	172	.0907
60	3.86	33.130	7.32														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA																		
STATION 310-06, 35-20.1. N, 125-12.1. E, FEB.23.1980, 06.20 KST, DEPTH 72, COLOR, WEATHER, TRANS.																		
WAVE	2, SWELL	1, WIND W	2, BARO 1030.0	2, AIR TEMP. DRY	4.0, WET													
0	5.42	37.040	7.06							0	5.42	33.060	7.06	26.10	192	192	.0000	
10	5.12	33.060	7.22							10	5.12	33.060	7.22	26.15	187	187	.0190	
20	4.98	33.080	7.47							20	4.98	33.080	7.47	26.18	184	184	.0376	
30	5.03	33.120	7.22							30	5.03	33.120	7.22	26.21	182	182	.0560	
50	4.95	33.100	7.22							50	4.95	33.100	7.22	26.20	183	183	.0925	
69	5.00	33.120	7.01															
KOREA																		
STATION 310-07, 35-20.1. N, 125-00.0. E, FEB.23.1980, 06.30 KST, DEPTH 81, COLOR, WEATHER, TRANS.																		
WAVE	2, SWELL	1, WIND W	2, BARO 1031.0	2, AIR TEMP. DRY	3.1, WET													
0	5.80	33.130	7.22							0	5.80	33.130	7.22	26.12	190	189	.0000	
10	5.60	33.130	7.01							10	5.60	33.130	7.01	26.15	187	187	.0189	
20	5.58	33.130	6.99							20	5.58	33.130	6.99	26.15	187	187	.0376	
30	5.58	33.150	6.96							30	5.58	33.150	6.96	26.17	186	186	.0563	
50	5.50	33.130	7.01							50	5.50	33.130	7.01	26.16	186	186	.0937	
77	5.60	33.170	7.01							75	5.50	33.167	7.01	26.18	185	185	.1402	
KOREA																		
STATION 310-08, 35-20.1. N, 125-47.9. E, FEB.23.1980, 02.45 KST, DEPTH 87, COLOR, WEATHER, TRANS.																		
WAVE	2, SWELL	1, WIND SW	1, BARO 1031.5	2, AIR TEMP. DRY	2.2, WET													
0	6.30	37.220	7.01							0	6.30	37.220	7.01	26.13	189	189	.0000	
10	5.80	33.260	7.03							10	5.80	33.260	7.03	26.23	180	180	.0185	
20	5.00	37.260	7.01							20	5.90	33.280	7.01	26.23	180	180	.0365	
30	5.91	33.300	7.01							30	5.91	33.300	7.01	26.24	178	178	.0544	
50	6.20	33.710	6.99							50	6.20	33.310	6.99	26.22	181	181	.0905	
75	6.18	33.310	7.73							75	6.18	33.310	7.73	26.22	181	181	.1359	
84	6.20	33.330	6.96															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 310-00 , 35-20.1. N, 124-23.6. E, FEB.23.1960, 00.50 KST, DEPTH 93 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SW 1, BARO 1032. , AIR TEMP. DRY 3.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	6.28	33.130	7.11							0	6.28	33.130	7.11	26.06	195	195	.0000
10	6.04	33.130	7.06							10	6.04	33.130	7.06	26.09	192	192	.0194
20	6.32	33.150	7.01							20	6.32	33.150	7.01	26.07	194	194	.0388
30	6.40	33.170	7.06							30	6.40	33.170	7.06	26.08	194	194	.0583
50	6.42	33.190	7.11							50	6.42	33.190	7.11	26.09	193	193	.0970
75	6.20	33.210	7.01							75	6.20	33.210	7.01	26.14	188	188	.1449
90	6.38	33.220	6.91														

KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, FEB.22.1980, 23.00 KST, DEPTH 88 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND SW 1, BARO 1032. , AIR TEMP. DRY 3.6, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	6.30	33.120	7.47							0	6.30	33.120	7.47	26.05	196	196	.0000
10	6.17	33.240	7.42							10	6.17	33.240	7.42	26.16	186	186	.0191
20	6.41	33.280	7.47							20	6.41	33.280	7.47	26.17	186	186	.0377
30	6.44	33.310	7.47							30	6.44	33.310	7.47	26.18	184	184	.0578
50	6.32	33.330	7.42							50	6.32	33.330	7.42	26.22	181	181	.0929
75	6.12	33.330	7.32							75	6.12	33.330	7.32	26.24	178	178	.1381
85	6.40	33.350	7.17														

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

4월(April)

KOREA ,HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, APR.17.1980, 15.10 VST, DEPTH 27 , COLOR 7, TRANS. 2.5.

WAVE 3, SWELL 2, WIND S 2, BARO 1019. , AIP TEMP. DRY 10.7, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,

0	7.20	32.880	6.94							0	7.20	32.880	6.94	25.75	226	225	.0000
10	7.00	32.880	6.63							10	7.00	32.880	6.63	25.77	223	223	.0225
20	6.90	32.900	6.63							20	6.90	32.900	6.63	25.80	220	220	.0447
24	7.02	32.920	6.43														

KOREA ,HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, APR.17.1980, 13.25 VST, DEPTH 56 , COLOR 7, TRANS. 2.5.

WAVE 3, SWELL 2, WIND S 2, BARO 1019.9, AIP TEMP. DRY 10.5, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,

0	7.58	32.860	7.27							0	7.58	32.880	7.27	25.69	231	230	.0000
10	7.53	32.810	7.35							10	7.53	32.810	7.35	25.64	235	235	.0233
20	6.80	32.900	7.24							20	6.80	32.900	7.24	25.62	237	236	.0471
30	6.60	32.940	6.84							30	6.60	32.940	6.84	25.87	213	214	.0677
53	6.58	32.970	6.86							50	6.58	32.966	6.86	25.90	211	212	.1103

KOREA ,HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, APR.17.1980, 11.35 VST, DEPTH 70 , COLOR 7, TRANS. 2.8.

WAVE 3, SWELL 2, WIND SW 2, BARO 1020.3, AIP TEMP. DRY 12.1, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,

0	7.38	32.920	6.94							0	7.38	32.920	6.94	25.75	225	225	.0000
10	7.32	32.790	6.94							10	7.32	32.790	6.94	25.66	234	234	.0230
20	6.55	32.850	6.63							20	6.55	32.850	6.63	25.81	220	220	.0457
30	6.50	32.940	6.03							30	6.50	32.940	6.03	25.89	212	212	.0673
50	6.50	32.970	5.83							50	6.50	32.970	5.83	25.91	210	210	.1097
67	6.40	33.010	5.73														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	Q2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, APR. 17, 1960, 06.50 WST, DEPTH 70 , COLOR 7, TPANS. 3.5.																	
WAVE 3, SWELL 2, WIND NW 2, BARO 1020.3, AIR TEMP. DRY 11.0, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,																	
0	7.00	37.090	6.94							0	7.00	37.090	6.94	25.86	215	214	.0000
10	6.88	32.880	6.84							10	6.88	37.880	6.84	25.79	221	221	.0218
20	6.48	32.970	6.53							20	6.48	32.970	6.63	25.91	210	210	.0434
30	6.36	37.060	6.94							30	6.36	33.060	6.94	26.00	202	202	.0641
50	6.30	33.080	6.53							50	6.30	33.080	6.53	26.02	199	200	.1043
67	6.30	33.080	6.43														
KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, APR. 17, 1960, 06.00 WST, DEPTH 82 , COLOR 6, TPANS. 5.8.																	
WAVE 3, SWELL 2, WIND NW 2, BARO 1020. , AIR TEMP. DRY 10.0, WET . , CLOUD. TYPE CI, AMT 2, WEATHER B ,																	
0	7.02	37.080	6.73							0	7.02	33.080	6.73	25.93	208	208	.0000
10	6.81	37.010	6.84							10	6.81	37.010	6.84	25.90	211	211	.0210
20	6.40	33.040	6.84							20	6.40	33.040	6.84	25.98	204	203	.0417
30	6.48	33.130	6.94							30	6.48	33.130	6.94	26.04	198	198	.0619
50	6.42	33.170	6.53							50	6.42	33.170	6.53	26.08	194	194	.1012
79	6.44	37.170	6.73							75	6.44	33.170	6.70	26.07	194	195	.1500
KOREA , HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, APR. 17, 1980, 06.10 WST, DEPTH 89 , COLOR , TPANS. . .																	
WAVE 4, SWELL 3, WIND NW 3, BARO 1019. , AIR TEMP. DRY 7.5, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	7.05	37.000	*****									33.080	*****	25.92	202	203	.0000
10	7.05	33.120	*****							10	7.05	33.120	*****	25.95	206	206	.0207
20	6.92	37.100	*****							20	6.92	33.100	*****	25.96	206	206	.0414
30	6.80	33.120	*****							30	6.80	33.120	*****	25.99	203	203	.0618
50	6.68	37.110	*****							50	6.68	37.110	*****	26.15	187	187	.1009
75	6.55	37.170	*****							75	6.55	33.170	*****	26.22	181	181	.1471
85	6.52	37.350	*****														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL P	NO2.N	NO3.N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D.T	SVA	D DY

KORFA , HAN PA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, APR. 17, 1980, 02.25 KST, DEPTH 89 , COLOR , TEARS. . .
 WAVE 4, SWELL 3, WIND NW 3, BARO 1018.5, AIR TEMP. DRY 7.0, WET 7.0, CLOUD. TYPE , AMT , WEATHER ,

0	7.08	33.130	6.73							0	7.08	33.130	6.73	25.96	205	205	.0000
10	7.05	33.150	6.43							10	7.05	33.150	6.43	25.98	203	203	.0205
20	6.85	33.120	6.12							20	6.85	33.120	6.12	25.98	203	203	.0408
30	7.20	33.100	6.84							30	7.20	33.100	6.84	25.92	209	209	.0615
50	6.94	33.120	6.02							50	6.94	33.120	6.02	25.97	204	205	.1070
75	6.83	33.220	6.12							75	6.83	33.220	6.12	26.06	195	196	.1572
87	6.58	33.370	5.41														

KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, APR. 17, 1980, 02.25 KST, DEPTH 89 , COLOR , TEARS. . .
 WAVE 4, SWELL 3, WIND NW 4, BARO 1018.5, AIR TEMP. DRY 7.0, WET 7.0, CLOUD. TYPE , AMT , WEATHER ,

0	7.15	33.150	6.84							0	7.15	33.150	6.84	25.96	205	204	.0000
10	7.10	33.150	6.94							10	7.10	33.150	6.94	25.97	204	204	.0205
20	7.10	33.170	6.99							20	7.10	33.170	6.99	25.99	203	203	.0408
30	7.05	33.170	6.53							30	7.05	33.170	6.53	25.99	202	202	.0611
50	6.75	33.260	6.48							50	6.75	33.280	6.48	26.12	190	190	.1065
75	6.70	33.390	6.43							75	6.70	33.390	6.43	26.21	181	192	.1471
85	6.68	33.400	6.53														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	O-DY
KOREA , HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, JUN.13.1980, 15.55 KST, DEPTH 29 , COLOR 6, TRANS. 6.0, WAVE 2, SWELL 1, WIND NE 2, BARO 1012. , AIR TEMP. DRY 18.6, WET . , CLOUD. TYPE ST, AMT 10, WEATHER C ,																	
0	17.40	37.030	5.45							0	17.49	33.030	5.45	23.91	400	400	.0000
10	14.08	37.750	5.56							10	14.08	33.750	5.56	24.92	304	304	.0353
20	11.92	37.210	5.45							20	11.92	33.210	5.45	25.74	274	274	.0445
25	10.90	37.120	5.56														
KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-46.5. E, JUN.13.1980, 14.15 KST, DEPTH 58 , COLOR 7, TRANS. 12.0, WAVE 2, SWELL 1, WIND NE 2, BARO 1012.5, AIR TEMP. DRY 18.6, WET . , CLOUD. TYPE ST, AMT 10, WEATHER C ,																	
0	18.31	33.150	5.96							0	18.31	33.150	5.96	23.80	411	410	.0000
10	15.23	33.310	5.66							10	15.23	33.310	5.66	24.64	331	331	.0371
20	11.71	32.190	5.45							20	11.71	33.190	5.45	25.26	272	272	.0673
30	9.59	33.060	5.66							30	9.59	33.060	5.66	25.53	246	247	.0933
55	9.49	33.400	5.76							50	9.51	33.332	5.74	25.75	225	226	.1406
KOREA , HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, JUN.13.1980, 12.25 KST, DEPTH 70 , COLOR 4, TRANS. 9.0, WAVE 2, SWELL 1, WIND NE 2, BARO 1013. , AIR TEMP. DRY 19.9, WET . , CLOUD. TYPE ST, AMT 10, WEATHER C ,																	
0	18.40	33.060	5.56							0	18.40	33.060	5.56	23.71	419	419	.0000
10	16.29	37.220	5.96							10	16.29	33.220	5.96	24.33	360	360	.0390
20	11.61	37.210	5.35							20	11.61	33.210	5.35	25.29	269	269	.0705
30	9.29	37.130	5.45							30	9.29	33.130	5.45	25.63	236	237	.0973
50	8.85	37.130	5.86							50	8.85	33.130	5.86	25.70	230	230	.1426
67	8.75	37.130	5.45														

6월 (June)

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , STATION 310-04 , 35-20.1. N, 125-00.0. E, JUN.13.1980, 06.50 KST, DEPTH 80 , COLOR 4, TRANS. 14.0,																	
WAVE	2, SWELL	1, WIND NW	2, BARO 1013. , AIR TEMP. DRY	17.6, WET	0	17.80	32.860	5.75	23.70	420	420	420	420	420	420	420	420
0	17.80	32.860	5.75														
10	14.95	33.170	5.96														
20	10.05	33.190	5.40														
30	8.74	33.210	5.25														
50	8.61	33.190	5.10														
60	8.59	33.190	5.25														
KOREA , STATION 310-07 , 35-20.1. N, 125-00.0. E, JUN.13.1980, 06.50 KST, DEPTH 80 , COLOR 4, TRANS. 13.0,																	
WAVE	2, SWELL	1, WIND NE	2, BARO 1013. , AIR TEMP. DRY	17.6, WET	0	17.62	32.790	5.45	23.69	421	421	421	421	421	421	421	421
0	17.62	32.790	5.45														
10	15.82	32.970	5.86														
20	9.80	33.190	5.76														
30	8.65	33.150	5.59														
50	8.34	33.210	5.66														
75	8.21	33.210	5.66														
KOREA , STATION 310-08 , 35-20.1. N, 125-47.9. E, JUN.13.1980, 07.05 KST, DEPTH 88 , COLOR 4, TRANS. 13.0,																	
WAVE	2, SWELL	1, WIND NW	2, BARO 1012. , AIR TEMP. DRY	17.6, WET	0	18.25	32.850	5.05	23.59	431	431	431	431	431	431	431	431
0	18.25	32.850	5.05														
10	16.01	32.740	5.15														
20	13.11	32.830	5.86														
30	8.90	33.170	5.56														
50	8.12	33.220	5.76														
75	8.05	33.240	5.45														
95	8.00	33.260	5.56														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 310-00 , 35-20.1. N, 124-23.6. E, JUN.13.1980, 03.10 VST, DEPTH 90 , COLOR , TRANS. . .																		
WAVE 2, SWELL 1, WIND NW 2, BARO 1011.5, AIR TEMP. DRY 17.8, WET . , CLOUD. TYPE , AMT , WEATHEP ,																		
0	19.51	33.030	5.25							0	18.51	33.030	5.25	23.66	424	424	.0000	
10	17.15	32.880	5.35							10	17.15	32.880	5.35	23.88	404	404	.0414	
20	14.89	32.720	5.76							20	14.89	32.720	5.76	24.26	367	367	.0800	
30	8.55	33.190	5.45							30	8.55	33.190	5.45	25.79	221	221	.1095	
50	7.81	33.240	5.66							50	7.81	33.240	5.66	25.94	207	207	.1524	
75	7.70	33.240	5.45							75	7.70	33.240	5.45	25.96	205	206	.2043	
87	7.62	33.260	5.45															
KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, JUN.13.1980, 03.20 VST, DEPTH 90 , COLOR , TRANS. . .																		
WAVE 2, SWELL 1, WIND SW 2, BARO 1011.2, AIR TEMP. DRY 17.7, WET . , CLOUD. TYPE , AMT , WEATHER ,																		
0	18.48	32.970	5.30							0	18.48	32.970	5.30	23.62	428	427	.0000	
10	16.05	32.970	5.35							10	16.05	32.970	5.35	24.20	373	373	.0401	
20	12.91	32.900	5.40							20	12.91	32.900	5.40	24.81	315	315	.0745	
30	7.75	33.260	5.66							30	7.75	33.260	5.66	25.97	205	205	.1006	
50	7.62	33.300	5.76							50	7.62	33.300	5.76	26.02	200	200	.1412	
75	7.59	33.310	6.26							75	7.59	33.310	6.26	26.03	199	200	.1913	
87	7.59	33.280	5.86															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2 N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

8월(August)

KOREA , HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, AUG. 9.1980, 18.20 KST, DEPTH 28 , COLOR 5, TRANS. 6.0.
 WAVE 2, SWELL 1, WIND NE 3, BARO 1009.3, AIR TEMP. DRY 24.5, WET . , CLOUD. TYPE AS, AMT 6, WEATHER FC,

0	22.90	32.540	5.20							0	22.90	32.540	5.20	22.12	571	571	.0000
10	20.09	32.630	6.00							10	20.09	32.630	6.00	22.96	491	491	.0532
20	16.89	33.150	5.71							20	16.89	33.150	5.71	24.14	378	378	.0967
25	16.38	33.280	5.41														

KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, AUG. 9.1980, 16.40 KST, DEPTH 58 , COLOR 5, TRANS. 7.0.
 WAVE 2, SWELL 1, WIND NE 3, BARO 1009.5, AIR TEMP. DRY 24.7, WET . , CLOUD. TYPE AS, AMT 5, WEATHER FC,

0	23.62	31.980	5.19							0	23.62	31.980	5.19	21.49	631	631	.0000
10	19.52	32.630	6.02							10	19.52	32.630	6.02	23.10	477	477	.0555
20	16.45	33.150	6.33							20	16.45	33.150	6.33	24.24	368	369	.0978
30	15.19	33.710	5.82							30	15.19	33.310	5.82	24.65	330	330	.1378
55	14.50	33.510	5.92							50	14.64	33.470	5.90	24.60	300	300	.1360

KOREA , HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, AUG. 9.1980, 14.50 KST, DEPTH 70 , COLOR 5, TRANS. 5.0.
 WAVE 2, SWELL 1, WIND NE 3, BARO 1009.8, AIR TEMP. DRY 24.9, WET . , CLOUD. TYPE AS, AMT 6, WEATHER FC,

0	23.35	32.140	5.04							0	23.35	32.140	5.04	21.69	612	612	.0000
10	21.69	32.700	5.40							10	21.69	32.300	5.40	22.28	556	556	.0585
20	16.09	32.860	6.02								16.90	32.860	6.02	23.90	402	402	.1064
30	14.68	33.710	5.61							30	14.88	33.310	5.61	24.72	323	324	.1428
50	13.01	33.550	5.20							50	13.91	33.550	5.20	25.11	286	287	.2040

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, AUG. 9.1980, 13.05 KST, DEPTH 71 , COLOR 4, TRANS. 9.0.																	
WAVE 2, SWELL 1, WIND SE 3, BARO 1010. , AIR TEMP. DRY 24.0, WET , , CLOUD. TYPE AS, AMT 6, WEATHER FC,																	
0	24.38	32.090	5.72							0	24.38	32.090	5.72	21.35	645	664	.0000
10	19.55	32.760	5.92							10	19.55	32.760	5.92	23.19	469	469	.0557
20	16.35	32.060	5.31							20	16.35	33.060	5.31	24.20	373	373	.0978
30	14.61	33.400	5.41							30	14.61	33.400	5.41	24.84	311	312	.1321
50	13.72	33.590	5.10							50	13.72	33.590	5.10	25.18	280	281	.1915
68	13.71	33.570	5.25														
KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, AUG. 9.1980, 11.10 KST, DEPTH 82 , COLOR 4, TRANS. 10.0.																	
WAVE 2, SWELL 1, WIND SE 3, BARO 1010.9, AIR TEMP. DRY 22.1, WET , , CLOUD. TYPE AS, AMT 7, WEATHER FC,																	
0	22.32	32.590	5.97							0	22.32	32.590	5.97	22.32	552	552	.0000
10	17.80	33.010	6.12							10	17.80	33.010	6.12	23.82	409	409	.0481
20	15.49	33.300	5.11							20	15.49	33.300	5.11	24.58	337	337	.0856
30	14.05	33.500	5.10							30	14.05	33.500	5.10	25.04	293	293	.1170
50	12.59	33.600	5.25							50	12.59	33.600	5.25	25.41	257	258	.1735
70	12.12	33.590	5.10							75	12.12	33.591	5.12	25.46	251	252	.2331
KOREA , HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, AUG. 9.1980, 09.20 KST, DEPTH 89 , COLOR 4, TRANS. 10.0.																	
WAVE 2, SWELL 1, WIND SE 3, BARO 1010. , AIR TEMP. DRY 21.9, WET , , CLOUD. TYPE AS, AMT 7, WEATHER FC,																	
0	23.14	32.320	5.31							0	23.14	32.320	5.31	21.89	594	593	.0000
10	21.75	32.610	5.41							10	21.75	32.610	5.41	22.50	535	535	.0563
20	16.95	32.790	5.82							20	16.95	32.790	5.82	23.85	406	406	.1036
30	13.59	33.400	5.20							30	13.59	33.400	5.20	25.06	291	292	.1385
50	11.12	33.530	5.51							50	11.12	33.530	5.51	25.63	236	237	.1915
70	11.00	33.530	5.56							75	11.09	33.530	5.56	25.64	236	237	.2510
86	11.64	33.570	6.02														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 310-02 , 35-20.1. N, 124-35.6. E, AUG. 9, 1980, 07.20 KST, DEPTH 92 , COLOR 3, TRANS. 14.0, WAVE 2, SWELL 1, WIND SE 3, BARO 1010. , AIR TEMP. 21.7, WET . , CLOUD. TYPE CI, AMT 6, WEATHER CC,																	
0	24.95	32.070	5.41							0	24.95	32.070	5.41	21.17	662	662	.0000
10	21.82	32.320	5.31							10	21.82	32.320	5.31	22.26	558	558	.0611
20	17.05	33.010	5.71							20	17.05	33.010	5.71	24.00	392	392	.1086
30	13.52	33.420	5.66							30	13.52	33.420	5.66	25.09	288	289	.1427
50	10.71	33.530	5.41							50	10.71	33.530	5.41	25.70	230	230	.1947
75	10.72	33.500	5.51							75	10.72	33.500	5.51	25.68	232	233	.2528
80	10.75	33.460	5.20														
KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, AUG. 9, 1980, 05.30 KST, DEPTH 91 , COLOR , TRANS. . , WAVE 1, SWELL 1, WIND SE 2, BARO 1000.8, AIR TEMP. DRY 21.4, WET . , CLOUD. TYPE CI, AMT 6, WEATHER BC,																	
0	25.09	32.320	5.01							0	25.09	32.320	5.01	21.32	648	648	.0000
10	22.79	32.470	5.31							10	22.79	32.470	5.31	22.10	573	573	.0611
20	16.20	32.950	5.92							20	16.20	32.950	5.92	24.15	378	378	.1087
30	17.75	33.440	6.02							30	17.75	33.440	6.02	25.05	291	292	.1423
50	10.82	33.530	5.31							50	10.82	33.530	5.31	25.68	231	232	.1947
75	10.80	33.530	5.35							75	10.80	33.530	5.35	25.69	231	232	.2529
80	10.71	33.530	5.33														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10월(October)

KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-40.3. E, OCT.16.1980, 19.30 KST, DEPTH 28 , COLOR , TRANS. ,																		
WAVE , 3, SWELL 1, WIND S 3, BARO 1019.5, AIR TEMP. DRY 16.0, WET , , CLOUD. TYPE , AMT , WEATHER ,																		
0	18.40	32.230	5.43							0	18.40	32.230	5.43	23.08	480	479	.0000	
10	17.89	32.520	5.83							10	17.89	32.520	5.83	23.42	447	447	.0464	
20	17.61	33.030	5.20							20	17.61	33.030	5.20	23.88	403	403	.0889	
25	16.69	33.240	4.62															
KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, OCT.16.1980, 17.50 KST, DEPTH 60 , COLOR 4, TRANS. 9.0,																		
WAVE , 3, SWELL 1, WIND S 3, BARO 1018.9, AIR TEMP. DRY 17.8, WET , , CLOUD. TYPE AS, AMT 10, WEATHER C ,																		
0	17.01	32.720	5.23							0	17.01	32.720	5.23	23.79	412	412	.0000	
10	16.89	32.650	4.92							10	16.89	32.650	4.92	23.76	415	415	.0414	
20	16.72	32.720	4.72							20	16.72	32.720	4.72	23.85	406	406	.0825	
30	15.78	33.130	4.72							30	15.78	33.130	4.72	24.38	355	356	.1206	
57	15.81	33.260	5.03							50	15.80	33.226	4.95	24.45	349	350	.1913	
KOREA , HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, OCT.16.1980, 16.00 KST, DEPTH 71 , COLOR 3, TRANS. 16.0,																		
WAVE , 3, SWELL 1, WIND S 3, BARO 1018. , AIR TEMP. DRY 18.2, WET , , CLOUD. TYPE AS, AMT 10, WEATHER C ,																		
0	17.61	32.650	5.27							0	17.61	32.650	5.27	23.59	431	431	.0000	
10	16.91	32.740	5.22							10	16.91	32.740	5.22	23.82	409	408	.0420	
20	16.90	32.790	6.03							20	16.90	32.790	6.03	23.86	405	405	.0827	
30	16.84	33.210	5.13							30	16.84	33.310	5.13	24.28	365	366	.1213	
50	16.16	33.420	4.92							50	16.14	33.420	4.92	24.52	342	343	.1923	
60	14.95	33.550	4.52															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, OCT.16,1980, 14.15 KST, DEPTH 70 , COLOR 3, TRANSP. 14.0.																	
WAVE	2, SWELL	1, WIND S	3, BARO 1019. , AIP TEMP. DRY	10.3, WET	. , CLOUD. TYPE AS, AMT 10, WEATHER C ,												
0	16.61	33.120	5.35							0	16.61	33.120	5.35	24.18	374	374	.0000
10	16.19	33.150	5.33							10	16.19	33.150	5.33	24.30	363	363	.0369
20	16.28	33.170	5.25							20	16.28	33.170	5.25	24.30	363	364	.0732
30	16.25	33.190	5.23							30	16.25	33.190	5.23	24.32	361	362	.1096
50	14.54	33.420	5.03							50	14.54	33.420	5.03	24.87	308	309	.1768
67	13.19	33.220	5.13														
KOREA HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, OCT.16,1980, 12.25 KST, DEPTH 82 , COLOR 3, TRANSP. 18.0.																	
WAVE	3, SWELL	1, WIND NW	3, BARO 1021. , AIP TEMP. DRY	18.2, WET	. , CLOUD. TYPE AS, AMT 10, WEATHER C ,												
0	16.75	33.100	5.41							0	16.75	33.100	5.41	24.14	379	378	.0000
10	16.49	33.030	5.41							10	16.49	33.030	5.41	24.14	378	378	.0379
20	15.79	33.220	5.03							20	15.79	33.220	5.03	24.45	349	349	.0743
30	14.99	33.130	4.82							30	14.99	33.130	4.82	24.55	339	339	.1088
50	12.55	33.370	4.82							50	12.55	33.370	4.82	25.24	274	275	.1703
79	12.18	33.500	4.77							75	12.23	33.482	4.78	25.39	260	261	.2373
KOREA HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, OCT.16,1980, 10.35 KST, DEPTH 88 , COLOR 3, TRANSP. 19.0.																	
WAVE	2, SWELL	1, WIND NW	2, BARO 1021. , AIP TEMP. DRY	17.9, WET	. , CLOUD. TYPE AS, AMT 10, WEATHER C ,												
0	17.85	33.100	5.52							0	17.85	33.100	5.52	23.88	404	403	.0000
10	16.99	33.060	5.43							10	16.99	33.060	5.43	24.05	387	387	.0306
20	16.47	33.100	5.23							20	16.62	33.120	5.23	24.18	374	375	.0777
30	16.09	33.130	5.03							30	16.33	33.140	5.03	24.31	364	364	.1113
50	11.31	33.570	5.08							50	11.31	33.570	5.08	25.63	227	228	.1763
75	10.81	33.570	4.52							75	10.81	33.570	4.52	25.72	228	230	.2348
85	10.88	33.550	4.72														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 310-09 , 35-20.1. N, 124-35.6. E, OCT.16,1980, 06.40 KST, DEPTH 92 , COLOR 3, TRANSP. 18.0,

WAVE 2, SWELL 1, WIND S 2, BARO 1021. , AIR TEMP. DRY 17.7, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	18.12	32.760	5.43							0	18.12	32.760	5.43	23.55	435	434	.0000
10	17.75	32.770	5.43							10	17.75	32.770	5.43	23.65	425	425	.0430
20	17.10	32.900	5.38							20	17.10	32.900	5.38	23.90	401	401	.0844
30	16.29	33.280	5.23							30	16.29	33.280	5.23	24.38	355	356	.1223
50	13.72	33.500	4.52							50	13.72	33.500	4.52	25.11	286	287	.1868
75	11.59	33.570	4.52							75	11.59	33.570	4.52	25.58	242	243	.2532
89	11.11	33.590	4.42														

KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, OCT.16,1980, 06.50 KST, DEPTH 89 , COLOR 3, TRANSP. 20.0,

WAVE 2, SWELL 1, WIND NW 2, BARO 1020. , AIR TEMP. DRY 17.3, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	18.09	32.700	5.43							0	18.09	32.700	5.43	23.51	438	438	.0000
10	18.05	32.760	5.53							10	18.05	32.760	5.53	23.57	433	433	.0436
20	17.75	32.720	5.43							20	17.75	32.720	5.43	23.61	429	429	.0868
30	16.45	33.080	5.23							30	16.45	33.080	5.23	24.19	374	374	.1270
50	14.74	33.400	5.13							50	14.74	33.400	5.13	24.82	314	315	.1960
75	10.75	33.550	4.82							75	10.75	33.550	4.82	25.71	229	230	.2642
86	10.39	33.550	4.72														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D.DY

12월(December)

KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-49.3. E, DEC.10.1980, 02.45 KST, DEPTH 20 , COLOR , TRANS. ,

WAVE	3, SWELL	1, WIND NW	4, BARO 1023.9, AIR TEMP. DRY	5.0, WET	6, CLOUD. TYPE	7, AMT	WEATHER				
0	9.40	33.100	6.73	0	9.40	33.100	6.73	25.59	240	240	.0000
10	9.49	33.130	6.39	10	9.49	33.130	6.39	25.60	240	239	.0240
20	9.25	33.090	6.19	20	9.25	33.090	6.19	25.61	239	239	.0480
26	9.35	33.010	6.34								

KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, DEC.10.1980, 01.00 KST, DEPTH 60 , COLOR , TRANS. ,

WAVE	3, SWELL	1, WIND NW	4, BARO 1023.8, AIR TEMP. DRY	6.0, WET	6, CLOUD. TYPE	7, AMT	WEATHER				
0	10.45	33.120	6.19	0	10.45	33.120	6.19	25.43	256	255	.0000
10	10.42	33.150	6.09	10	10.42	33.150	6.09	25.46	253	253	.0255
20	10.52	33.130	6.14	20	10.52	33.130	6.14	25.43	256	256	.0509
30	10.58	33.150	6.09	30	10.58	33.150	6.09	25.43	255	256	.0766
57	10.51	33.190	6.06	50	10.53	33.180	6.07	25.46	252	253	.1276

KOREA , HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, DEC.18.1980, 23.10 KST, DEPTH 71 , COLOR , TRANS. ,

WAVE	3, SWELL	1, WIND NW	4, BARO 1023.2, AIR TEMP. DRY	6.3, WET	6, CLOUD. TYPE	7, AMT	WEATHER				
0	10.69	33.300	6.21	0	10.69	33.300	6.21	25.53	246	246	.0000
10	10.98	33.310	5.99	10	10.98	33.310	5.99	25.48	250	250	.0249
20	11.09	33.330	6.11	20	11.09	33.330	6.11	25.48	251	251	.0500
30	11.00	33.260	5.99	30	11.00	33.260	5.99	25.44	254	255	.0753
50	11.18	33.240	5.99	50	11.18	33.240	5.99	25.39	259	260	.1268
69	11.07	33.300	6.08								

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, DEC.18.1980, 21.25 KST, DEPTH 71 , COLOR , TRANS. ,																	
WAVE	3, SWELL	1, WIND NW	4, BARO 1023. , AIR TEMP. DRY	6.7, WET													
0	10.79	33.240	5.99							0	10.79	33.240	5.99	25.46	252	252	.0000
10	10.99	33.300	6.80							10	10.99	33.300	6.80	25.48	251	251	.0252
20	10.89	33.280	6.09							20	10.89	33.280	6.09	25.48	251	251	.0504
30	11.01	33.210	6.08							30	11.01	33.210	6.08	25.40	258	259	.0759
50	11.05	33.300	5.89							50	11.05	33.300	5.89	25.46	252	253	.1272
68	10.05	33.280	5.89														
KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, DEC.18.1980, 19.35 KST, DEPTH 82 , COLOR , TRANS. ,																	
WAVE	3, SWELL	1, WIND NW	4, BARO 1023. , AIR TEMP. DRY	6.7, WET													
0	10.72	33.100	5.89							0	10.72	33.100	5.89	25.37	261	261	.0000
10	10.79	33.030	5.99							10	10.79	33.030	5.99	25.30	268	268	.0265
20	10.91	33.220	5.97							20	10.91	33.220	5.97	25.43	256	256	.0527
30	10.79	33.130	5.89							30	10.79	33.130	5.89	25.38	260	261	.0786
50	10.90	33.370	5.87							50	10.90	33.370	5.87	25.55	245	245	.1293
79	10.92	33.500	6.24							75	10.92	33.482	6.19	25.63	237	276	.1898
KOREA , HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, DEC.18.1980, 17.45 KST, DEPTH 88 , COLOR , TRANS. ,																	
WAVE	4, SWELL	2, WIND NW	4, BARO 1022.5, AIR TEMP. DRY	6.0, WET													
0	10.75	33.100	5.49							0	10.75	33.100	5.49	25.36	262	262	.0000
10	10.71	33.060	5.79							10	10.71	33.060	5.79	25.34	264	264	.0263
20	10.74	33.120	6.82							20	10.74	33.120	6.88	25.38	260	260	.0526
30	10.65	33.130	6.29							30	10.65	33.130	6.29	25.40	258	258	.0786
50	10.69	33.570	5.84							50	10.69	33.570	5.84	25.74	226	227	.1273
75	10.78	33.570	5.89							75	10.78	33.570	5.89	25.72	228	229	.1844
85	10.68	33.550	5.88														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 310-00 , 35-20.1. N, 124-35.6. E, DEC.18.1980, 15.50 KST, DEPTH 91 , COLOR 3, TRANS. 12.0,
 WAVE 4, SWELL 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 6.7, WET . , CLOUD. TYPE AC, AMT 8, WEATHER C ,

0	10.57	32.760	5.89							0	10.57	32.760	5.89	25.13	284	284	.0000
10	10.62	32.770	5.84							10	10.62	32.770	5.84	25.13	284	284	.0284
20	10.56	32.900	5.80							20	10.56	32.900	5.80	25.24	274	274	.0564
30	10.44	33.260	5.88							30	10.44	33.280	5.88	25.56	244	244	.0823
50	10.39	33.500	5.59							50	10.39	33.500	5.59	25.74	226	227	.1295
75	10.32	33.570	5.99							75	10.32	33.570	5.99	25.80	220	221	.1857
88	10.17	33.590	5.39														

KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, DEC.18.1980, 14.00 KST, DEPTH 90 , COLOR 3, TRANS. 14.0,
 WAVE 4, SWELL 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 6.8, WET . , CLOUD. TYPE AC, AMT 8, WEATHER C ,

0	10.76	32.700	5.93							0	10.76	32.700	5.93	25.05	292	291	.0000
10	10.70	32.760	5.79							10	10.70	32.760	5.79	25.11	286	286	.0289
20	10.46	32.720	6.29							20	10.46	32.720	6.29	25.12	285	285	.0576
30	10.37	33.080	5.78							30	10.37	33.080	5.78	25.41	257	258	.0848
50	10.23	33.400	5.79							50	10.23	33.400	5.79	25.69	231	232	.1338
75	10.11	33.550	5.62							75	10.11	33.550	5.68	25.82	218	219	.1904
87	9.92	33.550	5.79														

311선 해양관측성적

Oceanographic Data. Line 311

Oceanographic Data, Line 511																	
OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, FEB.23.1980, 16.50 KST, DEPTH 35 , COLOR 6, TRANSP. 4.0,

WAVE 2, SWELL 1, WIND NE 2, BARO 1027.4, AIR TEMP. DRY 9.9, WET . , CLOUD. TYPE AS, AMT 3, WEATHER B ,

0	3.90	33.080	7.68							0	3.90	33.080	7.68	26.29	174	173	.0000
10	3.81	33.130	7.42							10	3.81	33.130	7.42	26.34	160	169	.0171
20	3.70	33.150	7.37							20	3.70	33.150	7.37	26.37	166	166	.0339
30	3.62	33.310	7.27							30	3.62	33.310	7.27	26.50	154	154	.0500

KOREA , HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-41.9. E, FEB.23.1980, 16.30 KST, DEPTH 75 , COLOR , TRANSP. . ,

WAVE 2, SWELL 1, WIND NE 2, BARO 1027. , AIR TEMP. DRY 6.5, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	4.60	33.190	7.27							0	4.60	33.190	7.27	26.31	172	172	.0000
10	4.62	33.210	7.27							10	4.62	33.210	7.27	26.32	171	171	.0172
20	5.00	33.260	7.22							20	5.00	33.260	7.22	26.32	171	171	.0343
30	5.21	33.330	7.06							30	5.21	33.330	7.06	26.35	168	168	.0513
50	5.28	33.350	7.01							50	5.28	33.350	7.01	26.36	167	168	.0850
70	5.31	33.400	7.22														

KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, FEB.23.1980, 20.05 KST, DEPTH 90 , COLOR , TRANSP. . ,

WAVE 2, SWELL 1, WIND NE 2, BARO 1027. , AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	5.98	33.530	7.01							0	5.98	33.530	7.01	26.42	162	162	.0000
10	5.90	33.530	7.01							10	5.90	33.530	7.01	26.43	161	161	.0162
20	5.80	33.570	7.01							20	5.80	33.570	7.01	26.47	157	157	.0321

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

30 6.15 33.590 7.03
50 6.19 33.600 6.99
75 6.22 33.590 6.91
85 6.33 33.600 7.06

KOREA HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, FEB.23.1980, 22.40 KST, DEPTH 91 , COLOR , TRANS. . .
WAVE 2, SWELL 1, WIND N 2, BARO 1027.5, AIR TEMP. DRY 4.0, WET . , CLOUD. TYPE , AMT , WEATHER ,
0 6.00 33.510 7.01 0 6.00 33.510 7.01 26.40 164 163 .0000
10 6.02 33.530 6.96 10 6.02 33.530 6.96 26.41 162 162 .0163
20 6.00 33.530 6.91 20 6.00 33.530 6.91 26.41 162 162 .0326
30 5.98 33.530 6.96 30 5.98 33.530 6.96 26.42 162 162 .0488
50 5.80 33.530 6.91 50 5.80 33.530 6.91 26.44 160 160 .0811
75 6.31 33.590 6.91 75 6.31 33.590 6.91 26.42 161 162 .1215
88 6.40 33.640 6.89

KOREA HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.0. E, FEB.24.1980, 00.30 KST, DEPTH 95 , COLOR , TRANS. . .
WAVE 2, SWELL 1, WIND N 2, BARO 1028. , AIR TEMP. DRY 4.5, WET . , CLOUD. TYPE , AMT , WEATHER ,
0 7.30 33.590 7.12 0 7.30 33.590 7.12 26.29 174 174 .0000
10 7.22 33.620 6.91 10 7.22 33.620 6.91 26.32 171 170 .0173
20 7.20 33.640 6.70 20 7.20 33.640 6.70 26.34 169 169 .0343
30 7.03 33.640 6.86 30 7.03 33.640 6.86 26.37 167 167 .0511
50 7.00 33.680 6.70 50 7.00 33.680 6.70 26.40 163 164 .0843
75 6.02 33.690 6.70 75 6.92 33.690 6.70 26.42 161 162 .1251
90 6.40 33.690 6.73

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA HAN RA SAN STATION 311-09, 34-43.0. N, 124-35.8. E, FEB.24.1980, 02.20 PST, DEPTH 84, COLOR, TRANSP. . .

WAVE 1, SWELL 1, WIND N 2, BARO 1029.6, AIR TEMP. DRY 4.2, WET ., CLOUD. TYPE, AMT, WEATHER,

0	7.37	33.550	6.86	.	.	.	.	.	.	0	7.37	33.550	6.86	26.25	178	178	.0000
10	7.30	33.570	6.93	.	.	.	.	.	.	10	7.30	33.570	6.93	26.27	175	175	.0177
20	7.30	33.590	6.91	.	.	.	.	.	.	20	7.30	33.590	6.91	26.29	174	174	.0352
30	7.18	33.570	6.86	.	.	.	.	.	.	30	7.18	33.570	6.86	26.29	174	174	.0526
50	7.11	33.590	6.81	.	.	.	.	.	.	50	7.11	33.590	6.81	26.32	171	172	.0873
75	7.15	33.620	6.70	.	.	.	.	.	.	75	7.15	33.620	6.70	26.33	170	171	.1302
80	7.09	33.600	6.65	.	.	.	.	.	.	.	.	.	.	.	.	.	.

KOREA HAN RA SAN STATION 311-10, 34-43.0. N, 124-23.4. E, FEB.24.1980, 04.10 PST, DEPTH 86, COLOR, TRANSP. . .

WAVE 2, SWELL 1, WIND N 2, BARO 1029.6, AIR TEMP. DRY 3.4, WET ., CLOUD. TYPE, AMT, WEATHER,

0	7.25	33.600	6.91	.	.	.	.	.	.	0	7.35	33.600	6.91	26.29	174	174	.0000
10	7.40	33.660	6.39	.	.	.	.	.	.	10	7.40	33.660	6.39	26.33	170	170	.0172
20	7.38	33.680	6.08	.	.	.	.	.	.	20	7.38	33.680	6.08	26.35	168	168	.0342
30	7.41	33.690	6.70	.	.	.	.	.	.	30	7.41	33.690	6.70	26.35	168	168	.0511
50	7.28	33.690	6.86	.	.	.	.	.	.	50	7.28	33.690	6.86	26.37	166	167	.0846
83	7.20	33.710	6.08	.	.	.	.	.	.	75	7.22	33.705	6.27	26.39	164	165	.1262

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

4 월(April)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, APR.17,1980, 26.25 KST, DEPTH 35 , COLOR , TFANS. . .

WAVE 3, SWELL 2, WIND S 2, BARO 1018. , AIR TEMP. DRY 7.8, WET 7.8, WEATHER ,

0	7.13	32.950	6.63							0	7.13	32.950	6.63	25.81	219	219	.0000
10	7.12	33.010	6.73							10	7.12	33.010	6.73	25.86	215	215	.0217
20	7.00	32.990	6.94							20	7.00	32.990	6.94	25.86	215	215	.0433
30	7.13	33.060	6.63							30	7.13	33.060	6.63	25.90	211	211	.0646

KOREA , HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, APR.17,1980, 25.05 KST, DEPTH 75 , COLOR , TFANS. . .

WAVE 3, SWELL 2, WIND S 2, BARO 1017.5, AIR TEMP. DRY 7.5, WET 7.5, WEATHER ,

0	6.85	32.950	7.04							0	6.85	32.950	7.04	25.85	216	216	.0000
10	6.85	33.120	7.34							10	6.85	33.120	7.34	25.88	203	203	.0210
20	6.90	33.150	7.04							20	6.90	33.150	7.04	26.00	202	202	.0413
30	7.00	33.130	6.84							30	7.00	33.130	6.84	25.97	204	204	.0616
50	6.93	33.150	6.73							50	6.93	33.150	6.73	25.99	202	202	.1024
70	6.92	33.170	6.73														

KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, APR.21,1980, 04.00 KST, DEPTH 90 , COLOR , TFANS. . .

WAVE 2, SWELL 1, WIND W 2, BARO 1018. , AIR TEMP. DRY 8.2, WET 8.2, WEATHER ,

0	8.60	33.550	6.63							0	8.60	33.550	6.63	26.07	195	195	.0000
10	8.25	33.640	6.73							10	8.25	33.640	6.73	26.19	183	183	.0189
20	8.24	33.660	6.94							20	8.24	33.660	6.94	26.21	182	182	.0372

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	8.10	33.660	6.63							30	8.10	33.660	6.63	26.24	177	178	.0553
50	8.20	33.710	6.73							50	8.20	33.710	6.73	26.25	177	178	.0910
75	8.25	33.690	6.84							75	8.25	33.690	6.84	26.23	180	181	.1359
85	8.30	33.690	6.83														

KOREA , HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, APR.21.1980, 06.40 KST, DEPTH 90 , COLOR 6, TRANS. 3.0, WAVE 3, SWELL 2, WIND W 2, BARO 1019.5, AIR TEMP. DRY 10.2, WET 0 8.82 33.570 6.63 26.05 197 106 .0000 10 8.20 33.690 6.84 26.24 179 179 .0188 20 8.28 33.660 6.63 26.20 182 182 .0369 30 8.14 33.690 6.73 26.25 178 178 .0550 50 8.30 33.780 6.84 26.29 174 174 .0903 75 8.40 33.860 6.43 26.34 169 170 .1335 85 8.43 33.870 6.84

KOREA , HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, APR.21.1980, 08.30 KST, DEPTH 92 , COLOR 6, TRANS. 3.0, WAVE 3, SWELL 2, WIND SW 2, BARO 1019.5, AIR TEMP. DRY 12.5, WET 0 9.00 33.860 6.53 26.25 178 178 .0000 10 8.55 33.840 6.48 26.30 173 173 .0176 20 8.54 33.870 6.53 26.33 170 170 .0348 30 8.40 33.870 6.43 26.35 168 169 .0518 50 8.50 33.910 6.48 26.36 167 167 .0855 75 8.75 33.890 6.43 26.31 172 173 .1281 85 8.92 34.220 6.12

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA , HAN RA SAN , STATION 311-07 , 34-43.0. N, 124-23.4. E, APR. 21, 1960, 10.20 KST, DEPTH 83 , COLOR 6, TRANS. 4.5,
 WAVE 3, SWELL 2, WIND W 2, BARO 1020.4, AIR TEMP. DRY 12.7, WET . , CLOUD. TYPE CI, AMT 7, WEATHER BC,

0	9.12	33.960	6.48							0	9.12	33.960	6.48	26.31	172	172	.0000
10	8.99	34.160	6.53							10	8.99	34.160	6.53	26.48	156	155	.0164
20	8.90	34.160	6.53							20	8.90	34.160	6.53	26.50	154	154	.0320
30	8.72	34.040	6.48							30	8.72	34.040	6.48	26.43	160	161	.0478
50	8.75	34.180	6.43							50	8.75	34.180	6.43	26.54	150	151	.0790
75	8.82	34.310	6.22							75	8.82	34.310	6.22	26.63	142	143	.1159
80	8.92	34.690	6.43														

KOREA , HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, APR. 21, 1960, 12.15 KST, DEPTH 83 , COLOR 6, TRANS. 4.0,
 WAVE 3, SWELL 2, WIND W 2, BARO 1020. , AIR TEMP. DRY 12.6, WET . , CLOUD. TYPE CI, AMT 7, WEATHER BC,

0	9.10	34.070	6.43							0	9.10	34.070	6.43	26.39	164	164	.0000
10	9.00	34.090	6.53							10	9.00	34.090	6.53	26.43	161	161	.0163
20	8.91	34.090	6.48							20	8.91	34.090	6.48	26.44	160	160	.0323
30	9.02	34.100	6.53							30	9.02	34.160	6.53	26.48	156	156	.0482
50	9.35	34.290	6.43							50	9.35	34.290	6.43	26.53	151	152	.0791
80	9.20	34.710	6.38							75	9.23	34.307	6.39	26.56	148	149	.1169

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DRY

6 월 (June)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, JUN.13.1980, 21.15 KST, DEPTH 33 , COLOR , TPANS. . .																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1012. , AIR TEMP. DRY 17.0, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	15.85	33.600	5.66							0	15.85	33.600	5.66	24.73	323	322	.0000
10	13.00	33.600	5.35							10	13.00	33.600	5.35	25.33	265	265	.0294
20	12.79	33.550	6.16							20	12.79	33.550	6.16	25.33	265	265	.0560
30	12.69	33.530	5.66							30	12.69	33.530	5.66	25.34	264	265	.0825
KOREA , HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, JUN.13.1980, 22.55 KST, DEPTH 75 , COLOR , TPANS. . .																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1012. , AIR TEMP. DRY 17.4, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	14.06	33.590	6.06							0	14.06	33.590	6.06	24.91	305	304	.0000
10	12.50	33.600	5.71							10	12.50	33.600	5.71	25.43	256	256	.0281
20	12.35	33.620	5.30							20	12.35	33.620	5.30	25.47	252	252	.0535
30	12.31	33.660	5.56							30	12.31	33.660	5.56	25.51	248	248	.0785
50	12.19	33.640	5.56							50	12.19	33.640	5.56	25.52	247	248	.1283
70	12.31	33.640	5.76														
KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, JUN.18.1980, 13.20 KST, DEPTH 92 , COLOR , TPANS. 5.0.																	
WAVE 1, SWELL 1, WIND SW 2, BARO 1005.5, AIR TEMP. DRY 20.7, WET . , CLOUD. TYPE ST, AMT 10, WEATHER F ,																	
0	18.51	33.400	5.75							0	18.51	33.400	5.75	23.04	397	397	.0000
10	14.51	33.600	5.77							10	14.51	33.600	5.77	25.02	295	295	.0346
20	13.10	33.640	5.45							20	13.10	33.640	5.45	25.34	264	264	.0626
30	12.81	33.780	5.44							30	12.81	33.780	5.44	25.51	248	249	.0883
50	12.53	33.840	5.46							50	12.53	33.840	5.46	25.61	239	240	.1373
75	12.72	33.840	5.56							75	12.72	33.840	5.56	25.65	235	236	.1969
90	12.02	33.890	5.45														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, JUN.18.1980, 17.40 YST, DEPTH 89 , COLOR 5, TRANS. 8.0,																		
WAVE 2, SWELL 1, WIND SW 2, BARO 1010. , AIP TEMP. DRY 20.8, WET , CLOUD. TYPE AS, AMT 9, WEATHER C ,																		
0	19.15	33.300	5.35							0	19.15	33.300	5.35	23.71	420	419	.0000	
10	14.39	33.500	5.96							10	14.39	33.500	5.96	24.07	300	300	.0360	
20	12.45	33.600	5.66							20	12.45	33.600	5.66	25.44	255	255	.0638	
30	11.69	33.600	5.30							30	11.69	33.600	5.30	25.58	241	242	.0827	
50	10.09	33.710	5.35							50	10.09	33.710	5.35	25.95	206	207	.1336	
75	9.89	33.800	5.40							75	9.89	33.800	5.40	26.05	196	197	.1842	
85	10.69	34.050	5.56															
KOREA , HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, JUN.18.1980, 19.35 YST, DEPTH 95 , COLOR 5, TRANS. 9.5,																		
WAVE 2, SWELL 1, WIND SW 2, BARO 1010.5, AIR TEMP. DRY 20.4, WET , CLOUD. TYPE AS, AMT 9, WEATHER C ,																		
0	19.21	32.830	5.30							0	19.21	32.830	5.30	23.33	455	455	.0000	
10	17.49	33.010	5.66							10	17.49	33.010	5.66	23.89	402	402	.0429	
20	14.69	33.640	5.86							20	14.69	33.640	5.86	25.01	205	206	.0778	
30	12.55	33.930	5.66							30	12.55	33.930	5.66	25.67	232	233	.1043	
50	10.59	34.150	5.56							50	10.59	34.150	5.56	26.21	182	183	.1459	
75	10.02	34.200	5.50							75	10.02	34.200	5.50	26.34	169	170	.1901	
90	9.95	34.220	5.71															
KOREA , HAN RA SAN , STATION 311-09 , 34-43.0. N, 124-35.8. E, JUN.18.1980, 21.25 YST, DEPTH 85 , COLOR , TRANS. ,																		
WAVE 2, SWELL 1, WIND SW 2, BARO 1011.9, AIP TEMP. DRY 19.2, WET , CLOUD. TYPE , AMT , WEATHER ,																		
0	19.25	33.060	5.20							0	19.25	33.060	5.20	23.50	440	439	.0000	
10	14.62	33.350	6.36							10	14.62	33.350	6.36	24.36	358	358	.0399	
20	13.79	33.860	6.26							20	13.79	33.860	6.26	25.37	261	261	.0709	

OBSERVED																		INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

30	12.34	33.800	5.45							30	12.34	33.800	5.45	25.61	238	239	.0960
50	9.59	34.020	5.45							50	9.59	34.020	5.45	26.28	175	176	.1375
75	9.80	34.220	5.35							75	9.80	34.220	5.35	26.40	164	165	.1802
80	9.81	34.270	5.45														

KOREA , HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, JUN. 18, 1980, 23.20 KST, DEPTH 85 , COLOR , TRANS. ,

WAVE 2, SWELL 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 17.8, WET 0 18.98 32.990 5.56 , CLOUD. TYPE , AMT , WEATHER ,

0	18.98	32.990	5.56							0	18.98	32.990	5.56	25.51	438	438	.0000
10	17.29	33.240	5.45							10	17.29	33.240	5.45	24.12	381	381	.0410
20	14.39	33.640	6.16							20	14.39	33.640	6.16	25.08	289	290	.0745
30	12.85	33.890	5.71							30	12.85	33.890	5.71	25.58	241	241	.1011
50	9.90	34.040	5.35							50	9.90	34.040	5.35	26.24	179	179	.1433
80	9.84	34.270	5.45							75	9.85	34.232	5.43	26.40	164	165	.1864

8월(August)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, AUG. 9, 1980, 23.30 KST, DEPTH 34 , COLOR , TRANS. ,

WAVE 2, SWELL 1, WIND NE 3, BARO 1009. , AIR TEMP. DRY 24.2, WET 0 20.81 32.950 5.51 , CLOUD. TYPE , AMT , WEATHER ,

0	20.81	32.950	5.51							0	20.81	32.950	5.51	23.01	486	486	.0000
10	17.01	33.030	5.20							10	18.01	33.030	5.20	23.78	412	412	.0450
20	17.60	33.040	5.46							20	17.60	33.040	5.46	23.89	402	402	.0858
30	17.49	33.040	5.31							30	17.49	33.040	5.31	23.92	400	400	.1259

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, AUG.10.1980, 01.10 VST, DEPTH 78 , COLOR , TRANS. ,																	
WAVE	2, SWELL	1, WIND HE	3, BARO 1009. ,	AIR TEMP. DRY	21.0, WET	24.0, WET	0	20.59	23.170	5.61	23.23	465	445	.0000			
0	20.59	37.170	5.61														
10	16.63	33.240	5.51							10	16.63	33.240	5.51	24.27	366	366	.0416
20	16.15	37.260	5.50							20	16.15	33.280	5.50	24.41	352	353	.0775
30	15.78	33.310	5.31							30	15.78	33.310	5.31	24.52	342	343	.1124
50	15.74	33.330	5.10							50	15.74	33.330	5.10	24.54	340	341	.1809
75	15.62	33.350	5.30							75	15.62	33.350	5.30	24.59	336	338	.2658
KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, AUG.11.1980, 05.15 VST, DEPTH 90 , COLOR , TRANS. ,																	
WAVE	1, SWELL	1, WIND SE	2, BARO 1011.5, AIR TEMP. DRY	21.0, WET	21.0, WET	0	23.99	33.030	5.10	22.18	566	566	.0000				
0	27.99	37.030	5.10														
10	17.42	33.060	5.82							10	17.42	33.060	5.82	23.95	397	397	.0482
20	16.52	37.220	5.46							20	16.52	33.220	5.46	24.28	365	365	.0863
30	16.49	33.190	5.41							30	16.49	33.190	5.41	24.27	366	367	.1230
50	16.51	37.240	5.41							50	16.51	33.240	5.41	24.30	363	364	.1962
75	17.59	37.250	5.70							75	15.59	33.350	5.70	24.59	335	337	.2840
85	14.75	33.440	5.41														
KOREA , HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, AUG.11.1980, 07.55 VST, DEPTH 91 , COLOR 3, TRANS. 17.0,																	
WAVE	2, SWELL	1, WIND SE	3, BARO 1012. , AIR TEMP. DRY	23.5, WET	23.5, WET	0	24.58	32.200	5.51	21.26	654	654	.0000				
0	24.08	32.200	5.51														
10	27.62	32.110	5.53							10	23.62	32.110	6.53	21.59	622	622	.0638
20	22.03	32.860	5.92							20	22.03	32.860	5.92	22.61	525	525	.1212

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30 21.59 32.880 5.71
 50 16.98 32.130 6.22
 75 13.54 32.620 5.31
 88 11.24 32.950 5.20

KOREA , HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, AUG. 11. 1980, 09.50 KST, DEPTH 93 , COLOR 2, TRANS. 19.0.
 WAVE 1, SWELL 1, WIND SE 2, BARO 1012. , AIR TEMP. DRY 24.6, WET , CLOUD. TYPE AS, AMT 5, WEATHER BC,

0 25.24 31.910 5.51
 10 24.81 31.960 6.53
 20 22.36 32.140 5.92
 30 22.02 32.290 5.71
 50 10.69 33.860 6.22
 75 10.48 34.040 5.31
 90 10.42 34.050 5.20

KOREA , HAN RA SAN , STATION 311-00 , 34-43.0. N, 124-35.8. E, AUG. 11. 1980, 11.40 KST, DEPTH 82 , COLOR 3, TRANS. 21.0.
 WAVE 2, SWELL 1, WIND SE 3, BARO 1012. , AIR TEMP. DRY 25.3, WET , CLOUD. TYPE AS, AMT 5, WEATHER BC,

0 25.82 32.210 5.41
 10 24.92 31.980 6.38
 20 21.91 32.470 6.12
 30 16.11 32.210 6.58
 50 10.95 33.930 5.43
 75 10.25 34.020 5.41
 90 10.28 34.040 5.51

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 124-23.4. E, AUG.11.1980, 13.35 KST, DEPTH 81 , COLOR 7, TRANS. 21.0,
 WAVE 2, SWELL 1, WIND SE 3, BARO 1012. , AIR TEMP. DRY 24.4, WET , CLOUD. TYPE AS, AMT 5, WEATHER FC.

0	24.95	32.090	5.10							0	24.95	32.090	5.10	21.12	661	661	.0000
10	18.88	32.850	6.32							10	18.88	32.850	6.32	27.43	446	446	.0554
20	16.44	33.570	6.33							20	16.44	33.570	6.33	24.57	338	338	.0944
30	12.02	37.980	5.31							30	12.02	33.980	5.31	25.81	219	220	.1225
50	10.29	34.040	5.10							50	10.29	34.040	5.10	26.17	185	186	.1632
80	10.22	34.050	5.92							75	10.27	34.048	5.78	26.19	187	187	.2404

10월(October)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, OCT.17.1980, 00.40 KST, DEPTH 32 , COLOR , TRANS.
 WAVE 2, SWELL 1, WIND S 3, BARO 1020. , AIR TEMP. DRY 16.7, WET , CLOUD. TYPE , AMT , WEATHER ,

0	18.19	32.830	5.43							0	18.19	32.830	5.43	27.50	471	471	.0000
10	17.79	32.860	4.91							10	17.79	32.860	4.91	23.71	420	420	.0426
20	17.71	32.990	5.12							20	17.31	32.990	5.12	23.92	395	400	.0777
30	16.88	33.040	5.88							30	16.88	33.040	5.88	24.06	386	386	.1229

KOREA , HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, OCT.17.1980, 02.20 KST, DEPTH 78 , COLOR , TRANS.
 WAVE 2, SWELL 1, WIND S 3, BARO 1020.1, AIR TEMP. DRY 16.4, WET , CLOUD. TYPE , AMT , WEATHER ,

0	17.72	33.060	5.55							0	17.72	33.060	5.55	23.88	403	403	.0000
10	16.92	33.120	5.04							10	16.92	33.120	5.04	24.11	381	381	.0393
20	16.49	33.170	5.63							20	16.49	33.170	5.63	24.25	368	368	.0748
30	16.45	33.310	4.99							30	16.45	33.310	4.99	24.37	357	357	.1171
50	16.08	33.390	5.13							50	16.08	33.390	5.13	24.51	343	344	.1833
70	15.85	33.390	5.03							75	15.85	33.390	5.03	24.56	338	340	.2689

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY
KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-00.0. E, OCT.17.1980, 04.05 KST, DEPTH 90 , COLOR , TRANS. ,																	
WAVE	2, SWELL	1, WIND S	3, BARO 1019.6, AIR TEMP. DRY	16.2, WET													
0	17.49	37.150	6.03							0	17.49	37.150	6.03	24.00	392	391	.0000
10	16.51	37.170	5.37							10	16.51	37.170	5.37	24.25	368	368	.0380
20	16.39	37.210	4.61							20	16.39	37.210	4.61	24.30	363	363	.0746
30	16.32	37.220	5.03							30	16.32	37.220	5.03	24.33	361	361	.1109
50	15.65	37.280	5.43							50	15.65	37.280	5.43	24.52	342	343	.1814
75	14.99	37.370	5.78							75	14.99	37.370	5.78	24.74	321	323	.2647
85	12.72	37.570	6.37														
KOREA , HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, OCT.17.1980, 06.40 KST, DEPTH 91 , COLOR , TRANS. ,																	
WAVE	2, SWELL	1, WIND SE	3, BARO 1020.5, AIR TEMP. DRY	17.9, WET													
0	18.25	37.940	6.53							0	18.25	37.940	6.53	23.66	425	424	.0000
10	17.62	37.790	5.92							10	17.62	37.790	5.92	23.69	421	421	.0423
20	17.38	37.010	6.53							20	17.38	37.010	6.53	23.92	399	400	.0834
30	17.09	37.060	5.39							30	17.09	37.060	5.39	24.03	389	390	.1229
50	16.72	37.150	5.23							50	16.72	37.150	5.23	24.18	374	375	.1995
75	12.23	37.680	5.23							75	12.23	37.680	5.23	25.54	245	246	.2774
85	11.70	34.000	5.75														
KOREA , HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, OCT.17.1980, 08.35 KST, DEPTH 91 , COLOR , TRANS. 23.0,																	
WAVE	2, SWELL	1, WIND NE	3, BARO 1021. , AIR TEMP. DRY	18.8, WET													
0	18.62	37.660	6.32							0	18.62	37.680	6.32	23.37	452	452	.0000
10	17.23	37.700	5.24							10	17.23	37.700	5.24	23.72	419	419	.0436
20	17.29	37.030	5.23							20	17.29	37.030	5.23	23.96	396	396	.0844

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

30	17.05	33.030	5.04							30	17.05	33.030	5.04	24.01	390	391	.1238
50	15.88	33.730	5.23							50	15.88	33.730	5.23	24.92	314	315	.1945
75	12.60	34.090	5.33							75	12.60	34.090	5.33	25.77	223	225	.2620
86	11.11	34.070	5.53														

KOREA , HAN RA SAN , STATION 311-00 , 34-43.0. N , 124-23.8. E , OCT.17.1980 , 10.25 VET , DEPTH 89 , COLOR 3 , TRANS. 23.0 ,
 WAVE 2, SWELL 1, WIND NE 3, BARO 1022. , AIR TEMP. DRY 19.0, WET . , CLOUD. TYPE AS, AMT 3, WEATHER PC,
 0 18.61 32.700 6.03 0 18.61 32.700 6.03 23.38 450 450 .0000
 10 17.99 32.560 5.58 10 17.99 32.560 5.58 23.43 446 446 .0449
 20 17.08 32.720 5.33 20 17.98 32.720 5.33 23.55 434 435 .0889
 30 17.48 33.240 4.72 30 17.48 33.240 4.72 24.07 385 385 .1300
 50 15.32 33.500 4.82 50 15.32 33.500 4.82 24.77 319 320 .2006
 75 11.11 33.680 4.52 75 11.11 33.680 4.52 25.75 225 227 .2690
 85 10.32 34.020 5.33

KOREA , HAN RA SAN , STATION 311-10 , 34-43.0. N , 124-23.4. E , OCT.17.1980 , 12.20 VET , DEPTH 84 , COLOR 1 , TRANS. 22.0 ,
 WAVE 2, SWELL 1, WIND NE 3, BARO 1022. , AIR TEMP. DRY 20.1, WET . , CLOUD. TYPE AS, AMT 5, WEATHER PC,
 0 18.41 32.430 5.43 0 18.41 32.430 5.43 23.23 465 465 .0000
 10 18.29 32.390 6.13 10 18.29 32.390 6.13 23.23 465 465 .0466
 20 18.10 32.590 5.83 20 18.10 32.590 5.83 23.43 446 447 .0922
 30 17.79 33.500 5.03 30 17.79 33.500 5.03 24.20 373 374 .1333
 50 12.11 33.930 4.62 50 13.11 33.930 4.62 25.56 243 244 .1952
 80 10.49 34.050 5.34 75 10.93 34.030 5.22 26.05 196 198 .2505

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

12월(December)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, DEC.19.1980, 07.50 KST, DEPTH 37 , COLOR 5, TRANS. 4.0,
 WAVE 4, SWELL 3, WIND NW 5, EARO 1024.5, AIR TEMP. DRY 5.6, WET , , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	10.00	33.170	5.99							0	10.00	33.170	5.99	25.55	245	244	.0000
10	10.39	33.150	6.04							10	10.39	33.150	6.04	25.46	252	252	.0249
20	10.15	33.040	5.99							20	10.15	33.040	5.99	25.42	257	257	.0304
30	9.59	32.950	6.19							30	9.59	32.950	6.19	25.44	254	255	.0760

KOREA , HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, DEC.19.1980, 09.30 KST, DEPTH 75 , COLOR 5, TRANS. 5.5,
 WAVE 4, SWELL 3, WIND NW 5, EARO 1024.7, AIR TEMP. DRY 5.8, WET , , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 10.56 33.150 5.99 0 10.56 33.150 5.99 25.43 255 255 .0000
 10 10.25 33.170 6.09 10 10.25 33.170 6.09 25.50 249 249 .0252
 20 10.21 33.240 5.99 20 10.21 33.240 5.99 25.56 243 243 .0498
 30 10.49 33.730 5.89 30 10.49 33.330 5.89 25.59 241 241 .0741
 50 10.69 33.220 5.95 50 10.69 33.220 5.95 25.47 252 253 .1234
 72 10.92 33.170 6.00

KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, DEC.21.1980, 18.20 KST, DEPTH 91 , COLOR , TRANS. , ,
 WAVE 3, SWELL 1, WIND NW 4, EARO 1029.5, AIR TEMP. DRY 5.7, WET , , CLOUD. TYPE , AMT , WEATHER , ,
 0 10.75 33.030 5.89 0 10.75 33.030 5.89 25.31 267 267 .0000
 10 10.39 33.240 5.99 10 10.39 33.240 5.99 25.53 246 246 .0257
 20 10.61 33.190 6.01 20 10.61 33.190 6.01 25.46 253 253 .0507

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	10.75	37.240	5.94							30	10.75	37.240	5.94	25.47	252	252	.0760
50	10.63	37.190	5.89							50	10.63	37.190	5.89	25.45	253	254	.1267
75	10.70	37.040	5.83							75	10.70	37.040	5.83	25.72	266	267	.1919
88	10.69	37.400	6.09														

KOREA HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, DEC.21.1980, 21.00 KST, DEPTH 90 , COLOR , TRANS. ,

WAVE 3, SWELL 1, WIND NW 4, BARO 1029.5, AIR TEMP. DRY 5.9, WET . , CLOUD, TYPE , AMT , WEATHER ,

0	11.05	37.400	5.79							0	11.05	37.400	5.79	25.54	245	245	.0000
10	10.90	37.330	5.75							10	10.90	37.330	5.75	25.51	248	247	.0247
20	10.88	37.280	5.84							20	10.88	37.280	5.84	25.68	251	251	.0406
30	10.99	37.390	5.90							30	10.99	37.390	5.90	25.55	245	245	.0745
50	10.95	37.260	5.39							50	10.95	37.260	5.39	25.45	254	254	.1245
75	11.08	37.210	5.99							75	11.08	37.210	5.99	25.39	259	261	.1890
85	10.98	37.220	5.94														

KOREA HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, DEC.21.1980, 22.55 KST, DEPTH 92 , COLOR , TRANS. ,

WAVE 3, SWELL 1, WIND NW 4, BARO 1029.5, AIR TEMP. DRY 5.9, WET . , CLOUD, TYPE , AMT , WEATHER ,

0	10.71	37.280	5.89							0	10.71	37.280	5.89	25.51	248	248	.0000
10	10.95	37.260	6.09							10	10.95	37.260	6.09	25.45	254	253	.0251
20	11.11	37.230	5.84							20	11.11	37.230	5.84	25.48	251	251	.0504
30	10.98	37.390	5.79							30	10.98	37.390	5.79	25.55	244	245	.0752
50	11.05	37.370	5.81							50	11.05	37.370	5.81	25.52	247	248	.1246
75	10.95	37.310	5.74							75	10.95	37.310	5.74	25.49	250	251	.1871
89	11.10	37.240	5.79														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA , HAN RA SAN , STATION 311-09 , 34-43.0. N, 124-23.8. E, DEC.22.1980, 00.45 KST, DEPTH 88 , COLOR , TRANS. , ,																		
WAVE	3, SWELL	1, WIND E	4, BARO 1029. , AIR TEMP. 6.1, WFT	, CLOUD. TYPE , AMT , WEATHER ,														
0	10.63	37.150	5.82							0	10.63	37.150	5.82	25.42	256	256	.0000	
10	10.81	37.130	5.68							10	10.81	37.130	5.68	25.32	261	261	.0259	
20	10.83	37.260	6.20							20	10.83	37.260	6.20	25.47	252	252	.0516	
30	10.72	37.350	5.79							30	10.72	37.350	5.79	25.56	243	243	.0763	
50	10.78	37.390	6.29							50	10.78	37.390	6.29	25.58	241	242	.1250	
75	10.70	37.420	5.80							75	10.70	37.420	5.80	25.62	238	239	.1852	
85	10.82	37.390	5.79															
KOREA , HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, DEC.22.1980, 02.35 KST, DEPTH 82 , COLOR , TRANS. , ,																		
WAVE	3, SWELL	1, WIND E	4, BARO 1028.2, AIR TEMP. 5.0, WFT	, CLOUD. TYPE , AMT , WEATHER ,														
0	10.79	37.210	5.83							0	10.79	37.210	5.83	25.44	256	254	.0000	
10	10.76	37.280	5.87							10	10.76	37.280	5.87	25.50	249	249	.0252	
20	10.55	37.240	5.69							20	10.55	37.240	5.69	25.51	248	248	.0501	
30	10.46	37.210	5.69							30	10.46	37.210	5.69	25.50	249	249	.0751	
50	10.21	37.240	5.67							50	10.21	37.240	5.67	25.56	243	243	.1244	
75	10.14	37.260	5.71							75	10.15	37.274	5.70	25.60	239	240	.1850	

312선 해양관측성적

Oceanographic Data. Line 312

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2월(February)

KOREA , HAN RA SAN , STATION 312-02 , 33-58.5. N, 126-06.0. E, FEB.25.1980, 06.40 KST, DEPTH 83 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND NE 2, BARO 1028.5, AIR TEMP. DRY 4.5, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	6.70	33.960	6.22							0	6.70	33.960	6.22	26.66	139	132	.0000
10	6.52	34.000	6.62							10	6.52	34.000	6.62	26.72	133	133	.0136
20	6.24	33.980	6.07							20	6.24	33.980	6.07	26.74	131	131	.0269
30	6.42	34.000	6.02							30	6.42	34.000	6.02	26.73	132	172	.0401
50	6.40	34.040	5.92							50	6.40	34.040	5.92	26.76	129	129	
80	6.48	34.020	5.82							75	6.47	34.023	5.84	26.76			

KOREA , HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, FEB.24.1980, 22.50 KST, DEPTH 72 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND NE 2, BARO 1028. , AIR TEMP. DRY 5.3, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	7.20	34.090	6.42							0	7.20	34.090	6.42	26.61	143	143	.0000
10	7.12	34.070	6.22							10	7.12	34.070	6.22	26.69	136	136	.0140
20	6.88	34.070	6.32							20	6.88	34.070	6.32	26.72	133	133	.0275
30	7.00	34.110	5.82							30	7.00	34.110	5.82	26.74	131	131	.0407
50	7.51	34.160	6.22							50	7.51	34.160	6.22	26.71	134	135	.0674
69	7.70	34.220	5.42														

KOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, FEB.24.1980, 21.05 KST, DEPTH 84 , COLOR , TRANS. . .

WAVE 2, SWELL 1, WIND NW 1, BARO 1027.5, AIR TEMP. DRY 4.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	7.70	34.130	6.75							0	7.70	34.130	6.75	26.66	139	139	.0000
10	7.28	34.180	6.76							10	7.28	34.180	6.78	26.76	130	130	.0135

OBSERVED																	INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									

20	7.32	34.240	6.75							20	7.32	34.240	6.75	26.80	126	126	.0263
30	7.38	34.290	6.75							30	7.38	34.290	6.75	26.83	123	123	.0388
50	8.22	34.290	6.60							50	8.22	34.290	6.60	26.70	135	135	.0647
83	7.60	34.310	6.65							75	7.75	34.305	6.64	26.79	127	128	.0977

KOREA , HAN RA SAN , STATION 312-05 , 34-02.6. N , 125-30.0. E , FEB.24.1980. 19.15 KST. DEPTH 92 , COLOR , TRANS. . ,

WAVE 2, SWELL 1, WIND N 1, BARO 1027. , AIR TEMP. DRY 4.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	8.49	34.420	7.03							0	8.49	34.420	7.03	26.76	129	129	.0000
10	8.51	34.430	6.65							10	8.51	34.430	6.65	26.77	128	128	.0129
20	8.08	34.470	7.32							20	8.98	34.470	7.32	26.73	132	132	.0260
30	9.30	34.520	6.70							30	9.30	34.520	6.70	26.71	134	134	.0393
50	9.70	34.630	6.03							50	9.70	34.630	6.03	26.73	132	132	.0661
75	10.71	34.670	6.19							75	10.71	34.670	6.19	26.59	145	147	.1011
89	10.70	34.000	6.19														

KOREA , HAN RA SAN , STATION 312-06 , 34-04.1. N , 125-18.0. E , FEB.24.1980. 17.25 KST. DEPTH 102 , COLOR 6, TPANS. 4.5,

WAVE 3, SWELL 2, WIND N 2, BARO 1026. , AIR TEMP. DRY 4.5, WET . , CLOUD. TYPE CI, AMT 3, WEATHER B ,

0	8.81	34.400	6.65							0	8.81	34.400	6.65	26.70	135	135	.0000
10	8.78	34.470	6.49							10	8.78	34.470	6.49	26.76	129	129	.0133
20	9.80	34.450	6.34							20	9.80	34.450	6.34	26.58	147	147	.0271
30	10.20	34.810	6.39							30	10.20	34.810	6.39	26.79	127	127	.0408
50	10.25	34.050	6.39							50	10.25	34.890	6.39	26.84	121	122	.0658
75	10.42	34.890	6.19							75	10.42	34.890	6.19	26.81	124	126	.0970
90	10.68	34.060	6.24														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 312-07 , 34-05.5. N, 124-00.0. E, FEB.24,1980, 14.55 KST, DEPTH 91 , COLOR 5, TPANS. 4.0, WAVE 3, SWELL 2, WIND N 2, BARO 1026.3, AIR TEMP. DRY 6.5, WFT . , CLOUD. TYPE CJ, AMT 3, WEATHER C ,																	
0	10.28	34.540	6.24							0	10.28	34.540	6.24	26.56	148	147	.0000
10	10.20	34.790	6.34							10	10.20	34.790	6.34	26.77	128	128	.0138
20	10.03	34.810	6.29							20	10.03	34.810	6.29	26.82	124	124	.0265
30	10.22	34.900	6.24							30	10.22	34.900	6.24	26.86	120	121	.0387
50	10.65	34.960	6.24							50	10.65	34.960	6.24	26.83	123	124	.0633
75	10.79	34.980	6.29							75	10.79	34.980	6.29	26.82	124	125	.0945
88	10.80	34.960	6.29														
KOREA , HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, FEB.24,1980, 13.10 KST, DEPTH 92 , COLOR 3, TPANS. 9.5, WAVE 3, SWELL 2, WIND NW 2, BARO 1027.7, AIR TEMP. DRY 7.8, WFT . , CLOUD. TYPE CJ, AMT 2, WEATHER B ,																	
0	7.60	33.750	6.65							0	7.60	33.750	6.65	26.37	166	166	.0000
10	7.50	33.710	6.60							10	7.50	33.710	6.60	26.36	168	168	.0167
20	7.52	33.820	6.55							20	7.52	33.820	6.55	26.44	160	160	.0331
30	7.51	33.860	6.29							30	7.51	33.860	6.29	26.47	157	157	.0490
50	7.54	33.910	6.41							50	7.54	33.910	6.41	26.51	153	154	.0802
75	7.60	33.930	6.62							75	7.60	33.930	6.62	26.51	153	154	.1187
89	7.71	34.050	6.30														
KOREA , HAN RA SAN , STATION 312-09 , 34-05.5. N, 124-36.0. E, FEB.24,1980, 11.20 KST, DEPTH 85 , COLOR 3, TPANS. 8.0, WAVE 3, SWELL 2, WIND N 2, BARO 1029. , AIR TEMP. DRY 7.0, WFT . , CLOUD. TYPE AS, AMT 7, WEATHER EC,																	
0	7.61	33.950	6.39							0	7.61	33.950	6.39	26.53	151	151	.0000
10	7.50	34.450	6.34							10	7.50	34.450	6.34	26.04	113	112	.0132

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY								

20	7.64	34.490	6.24							20	7.64	34.490	6.24	26.05	111	112	.0245
30	7.68	34.600	6.29							30	7.68	34.600	6.29	27.03	104	104	.0353
50	7.71	34.650	6.39							50	7.71	34.650	6.39	27.06	101	101	.0559
82	7.84	34.670	5.72							75	7.81	34.666	5.87	27.06	101	102	.0814

KOREA , HAN RA SAN , STATION 312-10 , 34-05.5. N, 124-24.0. E, FEB.24.1980, 09.35 VST, DEPTH 80 , COLOR 3, TRANS. 7.5,
WAVE 2, SWELL 1, WIND NW 2, BARO 1028.6, AIR TEMP. DRY 8.0, WET . , CLOUD. TYPE AS, AMT 7, WEATHER BC,

0	7.50	33.780	6.70							0	7.50	33.780	6.70	26.41	162	162	.0000
10	7.48	33.840	6.86							10	7.48	33.840	6.86	26.46	158	158	.0160
20	7.72	33.860	6.88							20	7.72	33.860	6.88	26.44	159	160	.0319
30	7.83	33.860	6.80							30	7.83	33.860	6.80	26.43	161	161	.0420
50	7.80	33.930	6.61							50	7.80	33.930	6.61	26.48	155	156	.0798
75	7.88	33.960	6.71							75	7.88	33.960	6.71	26.50	154	155	.1188

4 월(April)

KOREA , HAN RA SAN , STATION 312-02 , 33-58.5. N, 124-06.0. E, APR.22.1980, 06.50 VST, DEPTH 85 , COLOR 6, TRANS. 4.0,
WAVE 3, SWELL 2, WIND N 2, BARO 1018. , AIR TEMP. DRY 11.7, WET . , CLOUD. TYPE CI, AMT 1, WEATHER B ,

0	10.22	34.220	7.25							0	10.22	34.220	7.25	26.33	170	170	.0000
10	10.10	34.270	7.05							10	10.10	34.270	7.05	26.39	165	165	.0168
20	9.90	34.310	6.95							20	9.90	34.310	6.95	26.45	159	159	.0330
30	9.83	34.400	7.15							30	9.83	34.400	7.15	26.53	151	151	.0486
50	9.03	34.420	6.74							50	9.93	34.420	6.74	26.53	151	152	.0789
82	10.24	34.520	6.64							75	10.17	34.498	6.66	26.55	149	150	.1168

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, APR.22.1980, 07.00 KST, DEPTH 74 , COLOR 7, TRANS. 2.5,																	
WAVE	3, SWELL	2, WIND H	2, BARO 1018.5	, AIR TEMP. DRY 11.7, WET					, CLOUD. TYPE CI, AMT					1, WEATHER E,			
0	10.45	34.200	7.05							0	10.45	34.200	7.05	26.27	176	175	.0000
10	9.95	34.240	7.35							10	9.95	34.240	7.35	26.39	165	165	.0170
20	9.70	34.340	7.05							20	9.70	34.340	7.05	26.51	153	153	.0330
30	9.60	34.400	6.95							30	9.60	34.400	6.95	26.57	147	147	.0481
50	9.91	34.430	6.85							50	9.91	34.430	6.85	26.54	150	151	.0780
70	9.94	34.450	6.54														
KOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, APR.22.1980, 05.15 KST, DEPTH 83 , COLOR , TRANS. ,																	
WAVE	4, SWELL	3, WIND NW	3, BARO 1017.8	, AIR TEMP. DRY 10.0, WET					, CLOUD. TYPE , AMT					, WEATHER ,			
0	10.25	34.180	6.74							0	10.25	34.180	6.74	26.29	174	174	.0000
10	10.10	34.310	6.85							10	10.10	34.310	6.85	26.42	162	162	.0168
20	10.85	34.360	6.76							20	10.85	34.360	6.76	26.32	171	171	.0335
30	11.02	34.400	6.74							30	11.02	34.400	6.74	26.32	171	171	.0506
50	10.95	34.430	6.85							50	10.95	34.430	6.85	26.36	167	168	.0846
80	11.02	34.510	6.64							75	11.01	34.497	6.62	26.40	163	165	.1263
KOREA , HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, APR.22.1980, 03.25 KST, DEPTH 94 , COLOR , TRANS. ,																	
WAVE	4, SWELL	3, WIND NW	3, BARO 1017.5	, AIR TEMP. DRY 11.0, WET					, CLOUD. TYPE , AMT					, WEATHER ,			
0	9.70	34.220	7.05							0	9.70	34.220	7.05	26.41	162	162	.0000
10	9.83	34.090	7.05							10	9.83	34.090	7.05	26.29	174	174	.0168
20	9.78	34.250	7.15							20	9.58	34.250	7.15	26.49	155	155	.0333
30	9.42	34.340	7.25							30	9.42	34.340	7.25	26.55	149	149	.0486
50	10.18	34.360	6.64							50	10.18	34.360	6.64	26.44	159	160	.0766
75	10.80	34.400	6.54							75	10.80	34.400	6.54	26.36	167	168	.1208
90	11.08	34.400	6.57														

OBSERVED										INTERPOLATED					CALCULATED				
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY		
KOREA , HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, APR.22.1980, 01.35 KST, DEPTH 101 , COLOR , TRANS. ,																			
WAVE	3, SWELL	2, WIND NW	3, BARO 101F.5, AIR TEMP. DRY	11.2, WET															
0	9.60	34.240	6.95							0	9.60	34.240	6.95	26.45	150	159	.0000		
10	9.70	34.270	6.74							10	9.70	34.270	6.74	26.45	158	158	.0159		
20	9.60	34.450	7.25							20	9.60	34.450	7.25	26.61	143	144	.0310		
30	9.89	34.470	7.05							30	9.89	34.470	7.05	26.58	147	147	.0456		
50	10.20	34.470	7.25							50	10.30	34.470	7.25	26.51	153	154	.0758		
75	10.70	34.450	6.44							75	10.70	34.450	6.44	26.42	161	163	.1156		
98	10.85	34.490	6.54																
KOREA , HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, APR.21.1980, 23.05 KST, DEPTH 90 , COLOR , TRANS. ,																			
WAVE	3, SWELL	2, WIND N	2, BARO 1019. , AIR TEMP. DRY	11.5, WET															
0	9.90	34.360	7.15							0	9.80	34.380	7.15	26.52	152	152	.0000		
10	9.93	34.470	6.64							10	9.93	34.470	6.64	26.57	147	147	.0150		
20	10.08	34.490	7.05							20	10.08	34.490	7.05	26.56	148	148	.0298		
30	10.26	34.450	6.76							30	10.26	34.450	6.76	26.50	154	154	.0450		
50	10.60	34.460	6.74							50	10.60	34.460	6.74	26.40	163	164	.0770		
75	11.05	34.450	6.60							75	11.05	34.450	6.69	26.36	167	169	.1187		
97	11.22	34.510	6.54																
KOREA , HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, APR.21.1980, 21.15 KST, DEPTH 90 , COLOR , TRANS. ,																			
WAVE	3, SWELL	2, WIND N	2, BARO 1019. , AIR TEMP. DRY	11.5, WET															
0	9.40	34.270	7.05							0	9.40	34.270	7.05	26.50	154	153	.0000		
10	9.95	34.310	7.05							10	9.95	34.310	7.05	26.44	159	159	.0157		

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	DT	SVA	ENDY

20	10.13	34.300	6.95							20	10.17	34.380	6.95	26.41	171	187	.0116
30	10.52	34.400	6.85							30	10.52	34.400	6.85	26.41	162	162	.0476
50	10.83	34.400	6.74							50	10.83	34.400	6.74	26.36	167	168	.0808
75	11.02	34.450	6.90							75	11.02	34.450	6.90	26.36	167	168	.1229
87	11.08	34.470	6.76														

KOREA HAN RA SAN , STATION 312-09 , 34-05.5. N, 124-36.0. E, APR.21.1980, 19.25 KST, DEPTH 88 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND N 2, BARO 1018.2, AIR TEMP. DRY 11.3, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	10.98	34.310	6.17							0	10.98	34.310	6.17	26.26	177	176	.0000
10	10.80	34.340	6.33							10	10.80	34.340	6.33	26.32	171	171	.0174
20	10.71	34.360	6.22							20	10.71	34.360	6.22	26.35	168	168	.0344
30	10.55	34.310	6.63							30	10.55	34.310	6.63	26.34	160	170	.0514
50	10.68	34.400	6.43							50	10.68	34.400	6.43	26.39	165	166	.0850
85	10.70	34.420	6.33							75	10.69	34.414	6.36	26.39	164	165	.1265

KOREA HAN RA SAN , STATION 312-10 , 34-05.5. N, 124-24.0. E, APR.21.1980, 17.40 KST, DEPTH 80 , COLOR 4, TRANS. 7.5,
 WAVE 3, SWELL 2, WIND NW 2, BARO 1019. , AIR TEMP. DRY 11.7, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	10.68	34.130	6.43							0	10.68	34.130	6.43	26.18	185	184	.0000
10	10.50	34.230	6.33							10	10.50	34.230	6.33	26.28	174	174	.0180
20	10.60	34.270	6.12							20	10.50	34.270	6.12	26.32	171	172	.0353
30	10.48	34.250	6.33							30	10.48	34.250	6.33	26.30	173	173	.0526
50	10.62	34.270	6.35							50	10.52	34.270	6.35	26.31	172	172	.0872
75	10.62	34.230	6.33							75	10.42	34.330	6.33	26.38	166	167	.1298

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D T	SVA	D-DY

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KOREA , HAN RA SAN , STATION 312-02 , 33-53.5. N, 124-04.0. E, JUN.19.1980, 16.00 YST, DEPTH 84 , COLOR 3, TRANS. 10.0.

WAVE 2, SWELL 1, WIND SE 3, BARO 1015. , AIR TEMP. DRY 20.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER P ,

0	17.00	33.950	5.56							0	17.00	33.950	5.56	24.73	322	322	.0000
10	15.09	34.020	5.86							10	15.09	34.020	5.86	25.22	276	276	.0299
20	12.00	34.360	5.56							20	12.00	34.360	5.56	26.11	191	191	.0533
30	11.45	34.450	5.25							30	11.45	34.450	5.25	26.28	174	175	.0717
50	11.20	34.450	5.15							50	11.20	34.450	5.15	26.31	172	172	.1065
83	11.35	34.470	5.25							75	11.34	34.465	5.23	26.32	171	173	.1497

KOREA , HAN RA SAN , STATION 312-03 , 33-50.8. N, 126-54.0. E, JUN.19.1980, 16.15 YST, DEPTH 74 , COLOR 5, TRANS. 9.0.

WAVE 2, SWELL 1, WIND SE 3, BARO 1014.3, AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE NS, AMT 10, WEATHER P ,

0	17.19	34.270	5.86							0	17.19	34.270	5.86	24.93	303	303	.0000
10	14.98	34.220	5.91							10	14.98	34.220	5.91	25.39	259	259	.0281
20	13.82	34.310	6.06							20	13.82	34.310	6.06	25.71	229	229	.0526
30	12.51	34.340	5.35							30	12.51	34.340	5.35	26.00	202	202	.0742
50	11.61	34.400	5.25							50	11.61	34.400	5.25	26.22	183	182	.1177
70	11.45	34.400	5.15														

KOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, JUN.19.1980, 16.30 YST, DEPTH 84 , COLOR 5, TRANS. 9.0.

WAVE 2, SWELL 1, WIND SE 3, BARO 1014.2, AIR TEMP. DRY 21.1, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	17.03	34.200	6.06							0	17.03	34.200	6.06	24.91	305	304	.0000
10	14.15	34.330	6.77							10	14.15	34.330	6.77	25.66	234	234	.0270

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

20	12.21	34.380	5.86							20	12.21	34.380	5.86	26.09	193	193	.0484
30	11.65	34.450	6.06							30	11.65	34.450	6.06	26.25	178	178	.0670
50	11.50	34.470	6.36							50	11.50	34.470	6.36	26.29	174	175	.1024
80	11.49	34.490	5.56							75	11.49	34.487	5.69	26.31	172	174	.1461

KOREA , HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, JUN. 19, 1980, 14.40 KST, DEPTH 94 , COLOR 5, TRANS. 7.5.

WAVE 3, SWELL 3, WIND 5 4, BARO 1014.5, AIR TEMP. DRY 20.8, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	17.41	33.820	6.36							0	17.41	33.820	6.36	24.53	341	341	.0000
10	14.20	33.820	5.96							10	14.20	33.820	5.96	25.25	272	272	.0307
20	13.59	33.960	5.66							20	13.59	33.860	5.66	25.49	250	250	.0569
30	12.95	34.270	5.56							30	12.95	34.270	5.56	25.86	215	215	.0802
50	11.75	34.400	5.35							50	11.75	34.400	5.35	26.19	183	184	.1203
75	11.13	34.450	5.45							75	11.13	34.450	5.45	26.34	169	170	.1647
90	11.01	34.450	5.25														

KOREA , HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, JUN. 19, 1980, 12.40 KST, DEPTH 103 , COLOR 3, TRANS. 10.0,

WAVE 3, SWELL 3, WIND E 4, BARO 1014. , AIR TEMP. DRY 19.8, WET . , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	17.95	33.690	6.16							0	17.95	33.690	6.16	24.30	363	363	.0000
10	14.62	33.860	6.26							10	14.62	33.860	6.26	25.20	278	278	.0321
20	15.09	33.870	6.46							20	15.09	33.870	6.46	25.10	287	287	.0604
30	17.00	33.910	5.06							30	13.99	33.910	5.96	25.37	262	262	.0879
50	12.62	34.090	5.71							50	12.62	34.090	5.71	25.78	222	223	.1365
75	11.62	34.160	5.76							75	11.62	34.160	5.76	26.03	199	200	.1895
100	10.30	34.290	5.45							100	10.30	34.290	5.45	26.37	167	168	.2357

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA , HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, JUN.19.1980. 10.15 KST, DEPTH 91 , COLOR 2, TRANS. 14.0,
 WAVE 1, SWELL 3, WIND E 4, BARO 1013.9, AIR TEMP. DRY 17.4, WET
 0 18.90 33.660 5.86 0 18.90 33.660 5.86 24.04 388 387 .0000
 10 16.30 34.040 6.16 10 16.30 34.040 6.16 24.96 300 300 .0344
 20 14.29 33.930 6.06 20 14.29 33.930 6.06 25.32 266 266 .0628
 30 13.41 34.180 6.06 30 13.41 34.180 6.06 25.69 230 231 .0877
 50 12.05 33.930 5.45 50 12.05 33.930 5.45 25.77 223 224 .1333
 75 11.42 34.150 5.40 75 11.42 34.150 5.40 26.06 196 197 .1861
 88 10.35 34.270 5.45

KOREA , HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, JUN.19.1980. 08.25 KST, DEPTH 92 , COLOR 2, TRANS. 15.0,
 WAVE 3, SWELL 3, WIND E 4, BARO 1013.9, AIR TEMP. DRY 15.2, WET
 0 19.45 33.480 5.81 0 19.45 33.480 5.81 23.77 414 414 .0000
 10 16.69 33.600 5.66 10 16.69 33.600 5.66 24.53 341 341 .0378
 20 15.59 33.690 6.36 20 15.59 33.690 6.36 24.85 310 311 .0704
 30 13.85 33.750 6.57 30 13.85 33.750 6.57 25.27 271 271 .0995
 50 11.21 34.050 5.35 50 11.21 34.050 5.35 26.02 200 200 .1468
 75 10.02 34.290 5.25 75 10.02 34.290 5.25 26.41 162 163 .1924
 88 9.72 34.290 5.56

KOREA , HAN RA SAN , STATION 312-09 , 34-05.5. N, 124-36.0. E, JUN.19.1980. 06.35 KST, DEPTH 88 , COLOR 2, TRANS. 17.0,
 WAVE 1, SWELL 1, WIND N 7, BARO 1013. , AIR TEMP. DRY 15.0, WET
 0 18.50 33.460 5.20 0 18.50 33.460 5.20 23.09 393 392 .0000
 10 17.09 33.750 5.40 10 17.09 33.330 5.40 24.23 370 369 .0381

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	Q2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	CT	SVA	D DY

20	14.95	33.570	5.96							20	14.95	33.570	5.96	24.90	306	366	.0770
30	12.11	33.870	5.16							30	12.11	33.870	6.16	25.71	229	279	.0988
50	9.51	34.180	5.35							50	9.51	34.180	5.75	26.41	162	173	.1351
75	9.51	34.270	5.45							75	9.51	34.270	5.75	26.46	157	168	.177

KOREA HAN RA SAN , STATION 312-10 , 34-05.5. N, 124-24.0. E, JUN.19.1980, 04.50 PST, DEPTH 80 , COLOR , TSS ,
 WAVE ? , SWELL 1, WIND N 2, BARO 1012.5, AIR TEMP. DRY 16.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	18.29	33.440	5.15							0	18.29	33.440	5.15	24.03	389	399	.0660
10	17.49	33.350	5.66							10	17.49	33.350	5.66	24.15	377	387	.0853
20	14.59	33.620	6.26							20	14.59	33.620	6.26	25.02	295	295	.0770
30	11.40	34.000	6.06							30	11.40	34.000	6.06	25.04	2		
50	9.52	34.160	5.56							50	9.52	34.160	5.56	26.40	164	164	.1344
75	9.45	34.240	5.56							75	9.45	34.240	5.56	26.47	157	168	.177

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KOREA HAN RA SAN , STATION 312-02 , 33-58.5. N, 126-06.0. E, AUG.12.1980, 10.20 PST, DEPTH 86 , COLOR 3, TSS. 12.0,																	
WAVE ? , SWELL 1, WIND E 3, BARO 1013. , AIP TEMP. DRY 22.6, WFT . , CLOUD. TYPE AS, AMT 9, WEATHER C ,																	
0	25.10	31.560	4.93							0	25.10	31.560	4.93	20.74	704	703	.0000
10	24.19	31.530	4.83							10	24.19	31.530	4.83	20.99	620	680	.0692
20	24.11	31.550	4.82							20	24.11	31.550	4.82	21.03	676	676	.1371
30	20.32	31.920	5.21							30	20.38	31.920	5.21	22.74	550	551	.1985
50	18.05	33.130	5.64							50	18.05	33.130	5.64	27.55	406	407	.2944
75	13.12	33.270	4.78							75	14.32	33.463	4.69	24.95	301	302	.3832

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KORFA , HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-4.0. E, AUG.12.1980, 06.30 KST, DEPTH 73 , COLOR 3, TRANSP. 14.0.																	
WAVE 2, SWELL 1, WIND E 3, BARO 1013. , AIR TEMP. DRY 20.7, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	25.32	31.560	4.88							0	25.32	31.580	4.88	20.69	708	706	.0000
10	24.29	31.640	5.08							10	24.29	31.640	5.08	21.04	675	675	.0692
20	24.09	31.670	5.01							20	24.09	31.670	5.01	21.12	667	667	.1363
30	18.15	32.680	5.99							30	18.15	32.680	5.99	23.48	441	442	.1918
50	14.49	37.840	5.08							50	14.49	33.840	5.08	25.21	277	278	.2639
70	12.19	37.050	5.13														
KORFA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, AUG.12.1980, 06.45 KST, DEPTH 85 , COLOR 3, TRANSP. 14.0.																	
WAVE 2, SWELL 1, WIND E 3, BARO 1012.7, AIR TEMP. DRY 19.2, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	26.05	31.960	4.93							0	26.05	31.960	4.93	20.75	702	702	.0000
10	23.34	32.020	5.38							10	23.34	32.020	5.38	21.60	621	621	.0662
20	16.89	32.070	5.74							20	16.89	32.070	5.74	23.32	457	457	.1201
30	13.40	33.780	5.28							30	13.40	33.780	5.28	25.39	260	260	.1541
50	12.05	37.620	5.03							50	12.05	33.620	5.03	25.53	246	247	.2069
80	12.02	34.040	4.75							75	12.02	33.970	4.80	25.80	220	221	.2655
KORFA , HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, AUG.12.1980, 04.55 KST, DEPTH 92 , COLOR , TRANSP. .																	
WAVE 1, SWELL 1, WIND E 2, BARO 1012.5, AIR TEMP. DRY 20.9, WET . , CLOUD. TYPE , AMT , WEATHER FC,																	
0	24.51	37.140	4.63							0	24.51	32.140	4.63	21.35	645	644	.0000
10	20.35	37.470	5.28							10	20.35	32.470	5.28	22.77	510	510	.0578

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA T	D T	SVA	D-DY
KOREA , HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, AUG.12.1980, 03.05 KST, DEPTH 103 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND E 2, BARO 1012.5, AIR TEMP. DRY 21.9, WET , CLOUD. TYPE , AM- , WEATHER ,																	
20	16.61	32.920	5.44							20	16.61	32.920	5.44	23.99	393	393	.1030
30	14.39	32.420	5.86							30	14.39	32.420	5.86	24.01	305	306	.1380
50	13.28	32.640	5.79							50	13.28	32.640	5.79	25.30	268	268	.1955
75	11.05	32.890	4.93							75	11.05	32.890	4.93	25.92	209	210	.2554
99	10.65	32.950	5.03														
KOREA , HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, AUG.12.1980, 00.30 KST, DEPTH 92 , COLOR , TRANS. ,																	
WAVE 2, SWELL 1, WIND E 3, BARO 1012.5, AIR TEMP. DRY 22.1, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	26.05	31.820	4.68							0	26.05	31.820	4.68	20.65	713	712	.0000
10	24.12	31.650	4.85							10	24.12	31.650	4.85	21.10	669	669	.0691
20	19.88	32.470	5.57							20	19.88	32.470	5.57	22.89	498	498	.1275
30	18.29	32.760	6.34							30	18.29	32.760	6.34	23.51	439	439	.1745
50	12.09	32.820	5.25							50	12.09	32.820	5.25	25.68	232	273	.2418
75	11.25	32.950	4.93							75	11.25	32.950	4.93	25.03	208	209	.2972
99	10.50	32.960	5.03														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D.T	SVA	D DY

KOREA , HAN RA SAN , STATION 312-00 , 34-05.5. N, 124-48.0. E, AUG.11.1980, 24.45 KST, DEPTH 91 , COLOR , TRANS. , ,
 WAVE 2, SWELL 1, WIND E 3, BARO 1012.3, AIR TEMP. DRY 23.6, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 26.31 31.560 4.98 0 26.31 31.560 4.98 20.37 739 779 .0000
 10 24.72 31.550 5.03 10 24.73 31.550 5.03 20.84 604 604 .0717
 20 24.51 31.530 4.86 20 24.51 31.530 4.86 21.12 667 667 .1398
 30 22.66 31.730 4.98 30 22.66 31.730 4.98 21.58 623 624 .2044
 50 14.99 33.310 6.39 50 14.99 33.310 6.39 24.69 326 327 .2996
 75 10.62 33.960 4.63 75 10.62 33.960 4.63 26.05 196 198 .3652
 88 10.25 34.090 5.01

KOREA , HAN RA SAN , STATION 312-09 , 34-05.5. N, 124-36.0. E, AUG.11.1980, 26.55 KST, DEPTH 86 , COLOR , TRANS. , ,
 WAVE 2, SWELL 1, WIND E 3, BARO 1012.2, AIR TEMP. DRY 24.0, WET . , CLOUD. TYPE , AMT , WEATHER ,
 0 25.82 31.690 5.34 0 25.82 31.690 5.34 20.62 715 715 .0000
 10 24.80 31.560 5.33 10 24.80 31.560 5.33 20.83 695 695 .0705
 20 23.95 31.710 6.38 20 23.95 31.710 6.38 21.19 660 660 .1384
 30 16.01 33.390 6.42 30 16.01 33.390 6.42 24.72 361 362 .1895
 50 10.71 33.960 5.03 50 10.71 33.960 5.03 26.04 192 199 .2456
 87 10.01 34.020 5.46 75 10.18 34.005 5.36 26.17 186 187 .2939

KOREA , HAN RA SAN , STATION 312-10 , 34-05.5. N, 124-24.0. E, AUG.11.1980, 19.10 KST, DEPTH 87 , COLOR , TRANS. 20.0,
 WAVE 2, SWELL 1, WIND E 3, BARO 1012.4, AIR TEMP. DRY 24.4, WET . , CLOUD. TYPE AS, AMT 4, WEATHER BC,
 0 25.25 31.560 5.03 0 25.25 31.580 5.03 20.71 706 706 .0006
 10 24.59 31.560 5.44 10 24.59 31.560 5.44 20.89 689 689 .0698
 20 23.72 31.870 5.03 20 23.72 31.870 5.03 21.38 642 642 .1364
 30 16.35 33.040 6.44 30 16.35 33.040 6.44 24.18 374 375 .1873
 50 10.00 34.000 5.64 50 10.00 34.000 5.64 26.02 200 200 .2450
 80 10.05 34.090 5.64 75 10.21 34.075 5.64 26.21 181 182 .2929

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10월(October)

KOREA , HAN RA SAN , STATION 312-02 , 33-50.5 N, 126-06.0. E, OCT.18, 1980, 05.15 PST, DEPTH 86 , COLOR 4, TRANSP. 10.0.

WAVE	3, SWELL	1, WIND N	3, BARO 1022.5, AIR TEMP. DRY 17.4, WET	0	19.75	32.720	6.02	23.11	477	476	.0000
	0	19.75	32.720	6.02	23.11	477	476	.0000			
	10	20.05	33.060	5.70	23.29	459	459	.0468			
	20	19.69	33.130	6.44	23.44	445	446	.0921			
	30	16.94	33.170	6.54	24.15	378	378	.1334			
	50	15.42	33.510	6.71	24.75	320	321	.2034			
	81	12.58	33.660	6.23	25.34	264	266	.2769			

KOREA , HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, OCT.18, 1980, 07.25 PST, DEPTH 72 , COLOR 4, TRANSP. 11.0.

WAVE	3, SWELL	1, WIND N	3, BARO 1021.6, AIR TEMP. DRY 16.2, WET	0	19.12	32.900	6.92	23.41	448	448	.0000
	0	19.12	32.900	6.92	23.41	448	448	.0000			
	10	17.65	32.900	6.44	23.77	414	414	.0431			
	20	17.49	32.940	6.12	23.84	407	407	.0842			
	30	16.47	33.390	5.92	24.42	351	352	.1222			
	50	15.49	33.190	5.43	24.49	345	346	.1921			
	67	12.64	33.620	5.02							

KOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 126-42.0. E, OCT.18, 1980, 05.40 PST, DEPTH 84 , COLOR , TRANSP. ,

WAVE	3, SWELL	1, WIND N	3, BARO 1021.6, AIR TEMP. DRY 16.7, WET	0	19.75	32.810	6.55	23.18	470	470	.0000
	0	19.75	32.810	6.55	23.18	470	470	.0000			
	10	19.18	32.570	6.34	23.14	474	474	.0472			

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

20	17.89	32.720	6.76							20	17.89	32.720	6.76	23.58	432	432	.0926
30	16.98	32.920	5.86							30	16.98	32.920	5.86	23.95	397	397	.1341
50	14.49	33.440	6.13							50	14.49	33.440	6.13	24.90	306	307	.2046
80	11.69	33.660	6.13							75	12.16	33.623	6.13	25.51	248	249	.2743

KOREA , HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, OCT.18.1980, 03.45 KST, DEPTH 90 , COLOR , IFANS. . .

WAVE 3, SWELL 1, WIND NW 4, BARO 1021.8, AIR TEMP. DRY 16.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	20.50	32.760	5.60							0	20.50	32.760	5.60	22.95	492	492	.0000
10	19.79	32.540	5.18							10	19.79	32.540	5.18	22.96	491	491	.0492
20	18.26	32.850	5.18							20	18.26	32.850	5.18	23.59	431	432	.0953
30	17.29	32.880	5.12							30	17.29	32.880	5.12	23.84	407	407	.1373
50	11.75	33.300	6.04							50	11.75	33.300	6.04	25.34	264	265	.2047
75	10.91	33.640	5.80							75	10.91	33.640	5.80	25.75	225	226	.2662
85	10.74	33.730	5.92														

KOREA , HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, OCT.18.1980, 01.55 KST, DEPTH 103 , COLOR , IFANS. . .

WAVE 3, SWELL 1, WIND NW 4, BARO 1022. , AIR TEMP. DRY 17.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	20.25	32.410	7.12							0	20.25	32.410	7.12	22.75	511	511	.0000
10	19.65	32.520	6.02							10	19.65	32.520	6.02	22.99	489	489	.0500
20	18.18	32.880	5.81							20	18.18	32.880	5.81	23.63	427	428	.0959
30	17.11	32.920	5.92							30	17.11	32.920	5.92	23.92	400	400	.1373
50	15.29	33.280	6.12							50	15.29	33.280	6.12	24.60	334	335	.2110
75	11.98	33.600	5.92							75	11.98	33.600	5.92	25.53	246	248	.2840
100	11.11	34.000	5.28							100	11.11	34.000	5.28	26.00	202	204	.3405

DEPTH	OBSERVED					INTERPOLATED					CALCULATED		
	TEMP	SAL	O2	P	TOTAL P	M02-N	M03-N	SI	PH	DEPTH	TEMP	SAL	O2
KOREA , HAN RA SAN , STATION 312-07 , 34-05.5. N, 124-00.0. E, OCT.17.1980, 23.20 KST, DEPTH 91 , COLOR , TRANS. ,													
WAVE	7, SWELL	1, WIND NW	3, BARO 1022.4, AIP TEMP. DRY	17.2, WET									

0	19.85	32.180	6.78							0	19.85	32.180	6.78
10	19.29	32.230	6.55							10	19.29	32.230	6.55
20	19.00	32.180	6.34							20	19.00	32.180	6.34
30	17.05	32.430	6.87							30	17.05	32.430	6.87
50	13.58	33.260	6.07							50	13.58	33.260	6.07
75	11.92	33.620	6.13							75	11.92	33.620	6.13
91	11.24	33.620	6.34										

0	20.25	32.430	6.53							0	20.25	32.430	6.53
10	19.65	32.480	6.53							10	19.65	32.480	6.53
20	19.75	32.590	5.83							20	19.75	32.590	5.83
30	15.55	32.740	6.93							30	15.55	32.740	6.93
50	17.61	33.310	6.88							50	13.61	33.310	6.88
75	13.29	33.640	6.43							75	13.29	33.640	6.43
91	11.19	34.040	5.81										

0	19.79	32.040	5.27							0	19.79	32.040	5.27
10	19.29	32.020	5.13							10	19.29	32.020	5.13

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL.P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	19.99	32.120	5.23							20	18.99	32.120	5.23	22.85	502	502	.1025
30	14.39	33.150	6.08							30	14.39	33.150	6.08	24.70	325	326	.1439
50	10.95	33.640	5.53							50	10.95	33.640	5.53	25.75	225	226	.1992
83	10.41	33.080	6.03							75	10.54	33.898	5.91	26.02	200	201	.2527

KOREA , HAN RA SAN , STATION 312-10 , 34-05.5. N, 126-24.0. E, OCT.17.1980, 17.50 KST, DEPTH 83 , COLOR 3, TRANS. 14.0.

WAVE 3, SWELL 1, WIND N 3, BARO 1021.1, AIR TEMP. DRY 10.3, WET 0 18.99 32.320 5.28 23.00 4.87 4.87 .0000

10 19.09 32.140 5.33 22.84 503 503 .0495

20 18.81 32.160 5.93 22.92 494 495 .0994

30 14.89 32.090 5.63 24.47 347 348 .1416

50 10.42 34.020 5.28 26.14 189 189 .1954

80 9.61 34.110 5.33 26.31 172 173 .2408

12월(December)

KOREA , HAN RA SAN , STATION 312-02 , 33-58.5. N, 126-06.0. E, DEC.22.1980, 23.20 KST, DEPTH 86 , COLOR , TRANS. ,

WAVE 3, SWELL 1, WIND NE 4, BARO 1016.5, AIR TEMP. DRY 3.4, WET 0 13.19 33.060 6.64 24.87 303 308 .0000

10 13.28 33.120 6.54 24.90 306 306 .0307

20 13.17 33.190 6.87 24.98 298 299 .0610

30 12.86 33.010 6.83 24.90 306 306 .0913

50 12.86 33.190 6.76 25.04 293 294 .1514

83 12.55 33.240 6.44 25.12 286 287 .2241

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D.DY	
KOREA , HAN RA SAN , STATION 312-07 , 33-59.8. N, 126-54.0. E, DEC.22.1980, 21.30 KST, DEPTH 72 , COLOR , TRANS. ,																		
WAVE	3, SWELL	1, WIND NE	4, BARO 1016.5, AIR TEMP. DRY	3.5, WET														
0	12.62	33.510	6.81							0	12.62	33.510	6.81	25.33	265	264	.0000	
10	12.29	33.460	6.65							10	12.29	33.460	6.65	25.36	262	262	.0264	
20	11.91	33.460	6.98							20	11.91	33.460	6.98	25.43	255	256	.0523	
30	11.72	33.400	6.80							30	11.72	33.400	6.80	25.42	256	257	.0780	
50	11.65	33.220	7.09							50	11.65	33.220	7.09	25.29	269	269	.1307	
60	11.59	33.210	6.62															
KOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, DEC.22.1980, 19.45 KST, DEPTH 84 , COLOR , TRANS. ,																		
WAVE	3, SWELL	1, WIND E	4, BARO 1016.5, AIR TEMP. DRY	3.4, WET														
0	12.31	33.120	7.09							0	12.31	33.120	7.09	25.09	288	287	.0000	
10	12.02	33.080	6.87							10	12.02	33.080	6.87	25.12	285	285	.0287	
20	11.63	33.060	7.41							20	11.63	33.060	7.41	25.17	280	280	.0570	
30	11.47	33.040	7.25							30	11.47	33.040	7.25	25.19	279	279	.0850	
50	11.39	33.150	6.54							50	11.39	33.150	6.54	25.29	269	270	.1400	
80	11.34	33.120	6.65							75	11.35	33.125	6.63	25.28	270	272	.2078	
KOREA , HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, DEC.22.1980, 17.50 KST, DEPTH 90 , COLOR , TRANS. ,																		
WAVE	3, SWELL	1, WIND E	4, BARO 1017.5, AIR TEMP. DRY	5.0, WET														
0	12.52	33.210	6.54							0	12.52	33.210	6.54	25.12	285	285	.0000	
10	11.92	33.120	6.87							10	11.92	33.120	6.87	25.17	281	281	.0283	
20	12.09	33.120	7.08							20	12.09	33.120	7.08	25.13	284	284	.0566	
30	12.01	33.220	6.63							30	12.01	33.220	6.63	25.23	275	275	.0846	
50	12.02	33.350	7.09							50	12.02	33.350	7.09	25.33	266	266	.1389	
75	12.10	33.330	6.33							75	12.10	33.330	6.33	25.29	268	270	.2060	
85	12.10	33.220	6.75															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, DEC.22.1980, 16.00 KST, DEPTH 102 , COLOR 3, TRANS. 14.0,																	
WAVE 3, SWELL 1, WIND E 4, BARO 1019.3, AIR TEMP. DRY 5.7, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	12.29	33.130	6.74							0	12.29	33.130	6.74	25.10	287	286	.0000
10	11.71	33.190	7.03							10	11.71	33.190	7.03	25.26	272	272	.0280
20	11.50	33.240	6.87							20	11.50	33.240	6.87	25.34	264	265	.0548
30	11.41	33.220	6.65							30	11.41	33.220	6.65	25.34	264	265	.0813
50	11.29	33.150	6.22							50	11.29	33.150	6.22	25.31	267	268	.1347
75	11.18	33.150	6.44							75	11.18	33.150	6.44	25.32	266	267	.2017
99	11.20	33.150	6.34														
KOREA ,HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, DEC.22.1980, 13.25 KST, DEPTH 91 , COLOR 3, TRANS. 10.0,																	
WAVE 3, SWELL 1, WIND E 4, BARO 1024. , AIR TEMP. DRY 5.2, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	12.15	33.210	6.75							0	12.15	33.210	6.75	25.19	278	278	.0000
10	11.52	33.120	6.75							10	11.52	33.120	6.75	25.24	274	274	.0276
20	11.51	33.030	7.63							20	11.51	33.030	7.63	25.17	280	280	.0554
30	11.52	33.130	6.77							30	11.52	33.130	6.77	25.25	273	273	.0831
50	11.61	33.150	7.30							50	11.61	33.150	7.30	25.25	273	274	.1379
75	11.51	33.040	6.87							75	11.51	33.040	6.87	25.18	279	281	.2073
86	11.62	33.060	6.33														
KOREA ,HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, DEC.22.1980, 11.35 KST, DEPTH 92 , COLOR 3, TRANS. 11.0,																	
WAVE 3, SWELL 1, WIND NW 4, BARO 1025.3, AIR TEMP. DRY 5.7, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	12.01	33.240	6.51							0	12.01	33.240	6.51	25.24	273	273	.0000
10	11.69	33.120	6.65							10	11.69	33.120	6.65	25.21	277	277	.0275
20	11.69	33.060	5.89							20	11.69	33.080	5.89	25.18	280	280	.0554

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	M02-N	M03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN PA SAN , STATION 312-09 , 34-05.5. N, 124-36.0. E, DEC.22.1980, 09.45 KST, DEPTH 83 , COLOR 3, TRANS. 15.0,																	
WAVE 2, SWELL 1, WIND NW 4, BARO 1026.2, AIR TEMP. DRY 5.1, WET . , CLOUD. TYPE AS. AMT 10, WEATHER C ,																	
30	11.20	32.970	5.71							30	11.20	32.970	6.71	25.07	290	290	.0839
50	11.72	32.980	5.54							50	11.72	32.880	6.54	25.02	295	296	.1426
75	11.52	32.190	6.76							75	11.52	33.190	6.76	25.29	268	270	.2134
80	11.48	32.240	6.10														
KOREA , HAN PA SAN , STATION 312-10 , 34-05.5. N, 124-26.0. E, DEC.22.1980, 08.00 KST, DEPTH 80 , COLOR 3, TRANS. 16.0,																	
WAVE 2, SWELL 1, WIND E 3, BARO 1026.4, AIR TEMP. DRY 5.0, WET . , CLOUD. TYPE AS. AMT 10, WEATHER C ,																	
0	11.24	33.150	5.73							0	11.24	33.150	5.73	25.20	277	277	.0000
10	11.62	33.170	5.77							10	11.62	33.170	5.77	25.26	272	272	.0275
20	11.59	32.240	5.45							20	11.59	33.240	5.45	25.32	266	266	.0544
30	11.48	33.240	5.43							30	11.48	33.240	5.43	25.34	264	264	.0810
50	11.43	32.190	5.56							50	11.43	33.190	5.56	25.31	267	268	.1343
75	11.12	32.170	5.40							75	11.12	33.170	5.40	25.35	263	264	.2009

제 3 편

한 일 공 동 해 양 관 측 성 적

(400선)

(수온, 염분, 산소 및 기상관측자료)

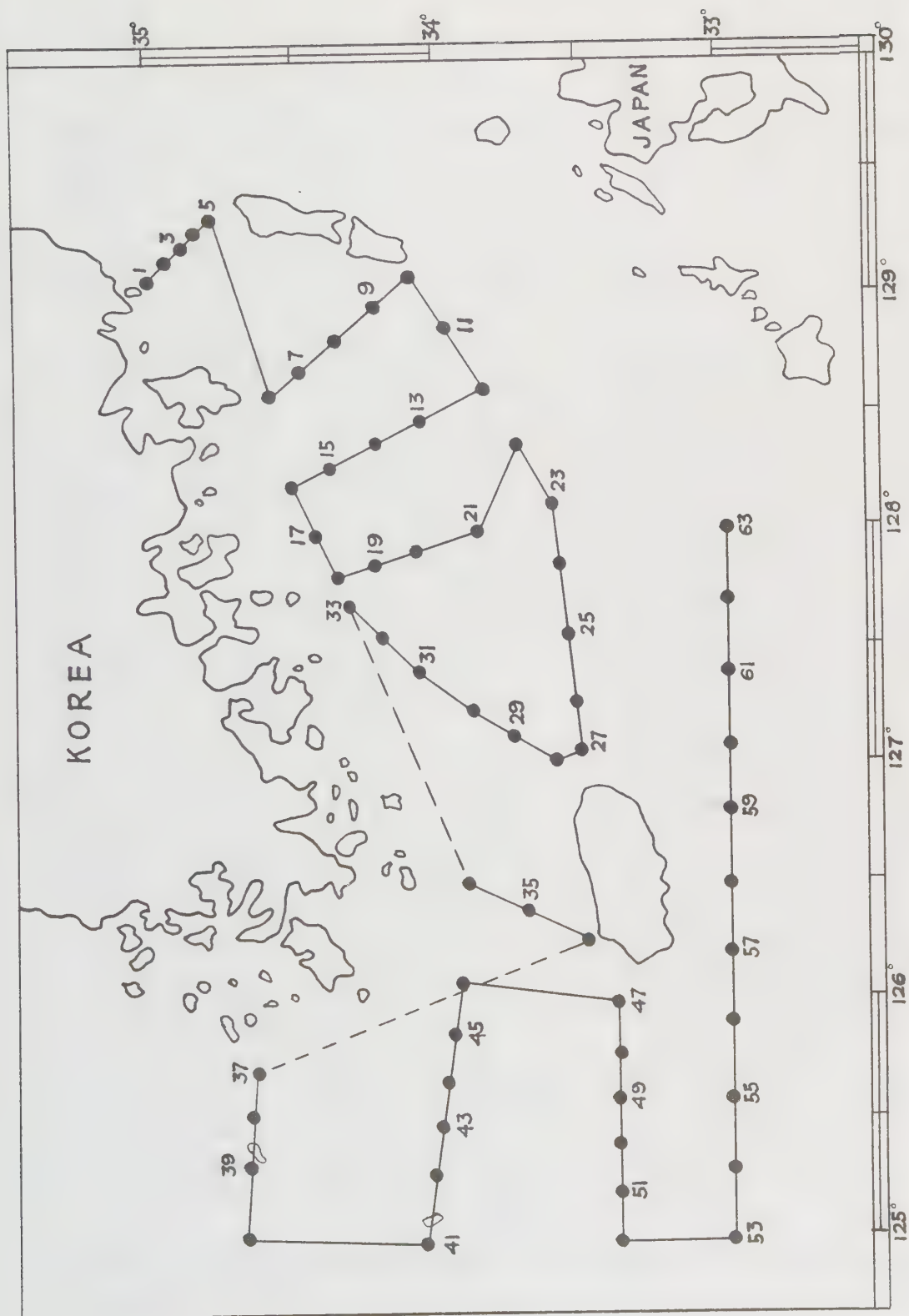
PART 3

KOREA-JAPAN COOPERATIVE OCEANOGRAPHIC DATA

(Line 400)

(Temperature, Salinity, Oxygen and Meteorological Data)

1980



한일 공동 해양 관측점 위치도
Location of the Korea-Japan Cooperative Oceanographic Stations

한일 공동 해양관측점 위치표

Position of the Korea-Japan Cooperative Oceanographic Stations

St.No.	Latitude (N)	Longitude (E)	SERIAL Ocean St.No.	St.No.	Latitude (N)	Longitude (E)	SERIAL Ocean St.No.
01	35° 01.3'	129° 07.2'	207 / 01	33	34° 20.8'	127° 43.9'	204 / 01
02	34° 57.6'	129° 11.2'	02	34	33° 56.6'	126° 31.4'	203 / 01
03	34° 53.9'	129° 15.4'	03	35	33° 47.5'	126° 26.3'	02
04	34° 50.2'	129° 19.5'	04	36	33° 38.3'	126° 21.3'	03
05	34° 48.0'	129° 21.8'	05	37	34° 43.0'	125° 43.9'	311 / 04
06	34° 35.5'	128° 34.5'	206 / 01	38	34° 43.0'	125° 31.9'	05
07	34° 29.6'	128° 41.2'	02	39	34° 43.0'	125° 19.4'	06
08	34° 22.4'	128° 49.7'	03	40	34° 43.0'	125° 00.0'	07
09	34° 15.3'	128° 58.0'	04	41	34° 05.5'	125° 00.0'	312 / 07
10	34° 08.1'	129° 06.3'	05	42	34° 04.1'	125° 18.0'	06
11	33° 58.3'	128° 54.0'		43	34° 02.6'	125° 30.0'	05
12	33° 51.7'	128° 39.0'		44	34° 01.3'	125° 42.0'	04
13	34° 04.6'	128° 30.0'		45	33° 59.8'	125° 54.0'	03
14	34° 13.5'	128° 24.0'		46	33° 58.5'	126° 06.0'	02
15	34° 22.2'	128° 18.4'		47	33° 24.4'	126° 00.0'	313 / 02
16	34° 31.0'	128° 12.2'		48	33° 24.4'	125° 48.0'	03
17	34° 27.0'	128° 00.5'		49	33° 24.4'	125° 36.0'	04
18	34° 22.3'	127° 48.5'	205 / 01	50	33° 24.4'	125° 24.0'	05
19	34° 15.0'	127° 52.1'	02	51	33° 24.4'	125° 12.0'	06
20	34° 05.5'	127° 56.9'	03	52	33° 24.4'	125° 00.0'	07
21	33° 51.5'	128° 03.0'	04	53	33° 00.0'	125° 00.0'	314 / 10
22	33° 44.3'	128° 23.9'		54	33° 00.0'	125° 18.0'	09
23	33° 37.3'	128° 09.2'	205 / 05	55	33° 00.0'	125° 36.0'	08
24	33° 35.6'	127° 51.9'		56	33° 00.0'	125° 54.0'	07
25	33° 33.6'	127° 34.0'		57	33° 00.0'	126° 12.0'	06
26	33° 31.7'	127° 11.8'		58	33° 00.0'	126° 30.0'	05
27	33° 30.3'	127° 04.5'		59	33° 00.0'	126° 48.0'	04
28	33° 35.8'	127° 03.2'	204 / 06	60	33° 00.0'	127° 06.0'	03
29	33° 45.5'	127° 09.2'	05	61	33° 00.0'	127° 24.0'	02
30	33° 54.1'	127° 15.2'	04	62	33° 00.0'	127° 42.0'	01
31	34° 06.7'	127° 26.8'	03	63	33° 00.0'	128° 00.0'	00
32	34° 13.7'	127° 35.4'	02				

400선 해양관측성적

Oceanographic Data. Line 400

OBSERVED																	INTERPOLATED						CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY									

2월(February)

KOREA , TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, FEB.13.1980, 19.10 KST, DEPTH 115 , COLOR , TRANS. . .
 WAVE , SWELL , WIND , BARO 1022.5, AIR TEMP. DRY 4.2, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	13.95	34.380	5.20							0	13.95	34.380	5.20	25.74	226	226	.0000
10	14.04	34.390	5.23							10	14.04	34.390	5.23	25.73	227	227	.0227
20	13.99	34.380	5.30							20	13.99	34.380	5.30	25.73	227	227	.0455
30	13.47	34.400	5.41							30	13.47	34.400	5.41	25.85	215	216	.0677
50	12.56	34.420	5.38							50	12.56	34.420	5.38	26.05	197	198	.1092
75	12.45	34.410	5.35							75	12.45	34.410	5.35	26.06	195	197	.1586
100	12.12	34.400	5.48							100	12.12	34.400	5.48	26.12	190	192	.2073
110	10.70	34.400	5.40														

KOREA , TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, FEB.13.1980, 17.30 KST, DEPTH 105 , COLOR 4, TRANS. 12.0,
 WAVE 4, SWELL 1, WIND NE 4, BARO 1023. , AIR TEMP. DRY 4.0, WET . , CLOUD. TYPE CI, AMT 7, WEATHER PC,

0	13.95	34.450	5.42							0	13.95	34.450	5.42	25.79	221	221	.0000
10	14.00	34.430	5.31							10	14.00	34.430	5.31	25.77	224	224	.0223
20	14.00	34.430	5.20							20	14.00	34.430	5.20	25.77	224	224	.0447
30	13.54	34.420	5.62							30	13.54	34.420	5.62	25.85	215	216	.0667
50	12.90	34.490	5.45							50	12.90	34.490	5.45	26.04	198	199	.1083
75	12.83	34.460	5.60							75	12.83	34.460	5.60	26.03	199	200	.1583
100	12.58	34.460	5.51							100	12.58	34.480	5.51	26.09	193	195	.2078

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY	

KOREA , TAE PAK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, FEB.13.1980, 21.30 YST, DEPTH 95 , COLOR , TRANS. , ,
 WAVE , SWELL , WIND , BARO 1022. , AIR TEMP. DRY 4.2, WET , CLOUD. TYPE , AMT , WEATHER ,

0	13.95	34.400	5.60							0	13.95	34.400	5.60	25.75	225	225	.0000
10	13.91	34.440	5.51							10	13.91	34.440	5.51	25.79	221	221	.0223
20	13.96	34.450	5.68							20	13.96	34.450	5.68	25.79	221	222	.0445
30	13.88	34.420	5.03							30	13.88	34.420	5.03	25.78	222	222	.0668
50	13.00	34.420	5.12							50	13.00	34.420	5.12	25.96	205	206	.1097
75	13.42	34.410	5.32							75	13.42	34.410	5.32	25.87	214	215	.1625
90	12.91	*****	*****														

KOREA , TAE PAK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, FEB.13.1980, 22.50 YST, DEPTH 88 , COLOR , TRANS. , ,
 WAVE , SWELL , WIND , BARO 1022.5, AIR TEMP. DRY 3.8, WET , CLOUD. TYPE , AMT , WEATHER ,

0	13.78	34.440	5.51							0	13.78	34.440	5.51	25.82	219	218	.0000
10	13.86	34.430	5.65							10	13.86	34.430	5.65	25.80	221	221	.0220
20	13.81	34.440	5.51							20	13.81	34.440	5.51	25.81	219	219	.0441
30	13.45	34.440	5.61							30	13.45	34.440	5.61	25.89	212	213	.0657
50	12.05	34.500	5.30							50	12.05	34.500	5.30	26.21	181	182	.1053
75	12.00	*****	*****							75	12.00	*****	*****	*****	***	***	*****
83	11.08	*****	*****														

KOREA , TAE PAK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, FEB.14.1980, 00.00 YST, DEPTH 65 , COLOR , TRANS. , ,
 WAVE , SWELL , WIND , BARO 1022.5, AIR TEMP. DRY 3.5, WET , CLOUD. TYPE , AMT , WEATHER ,

0	11.96	34.420	6.41							0	11.96	34.420	6.41	26.17	186	185	.0000
10	11.86	34.490	5.70							10	11.86	34.490	5.70	26.24	179	179	.0182

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	10.98	34.460	5.81							20	10.98	34.460	5.81	26.38	165	166	.0355
30	10.85	34.450	5.88							30	10.85	34.450	5.88	26.39	164	164	.0521
50	10.76	34.450	5.65							50	10.76	34.450	5.65	26.41	162	163	.0849
60	10.63	34.440	5.59														

KOREA ,TAE DAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, FEB.14,1980, 04.00 KST, DEPTH 46 , COLOR , TRANS. , ,
WAVE , SWELL , WIND , BARO 1023.5, AIR TEMP. DRY 3.1, WET , , CLOUD. TYPE , AMT , WEATHER ,

0	11.50	34.410	5.60							0	11.50	34.410	5.60	26.24	172	178	.0000
10	11.40	34.490	5.80							10	11.40	34.490	5.80	26.32	171	170	.0175
20	11.30	34.460	5.01							20	11.30	34.480	6.01	26.34	170	170	.0345
30	11.01	34.480	5.75							30	11.01	34.480	5.75	26.39	165	165	.0513
40	10.80	34.410	5.62														

KOREA ,TAE PAKY SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, FEB.14,1980, 02.50 KST, DEPTH 40 , COLOR , TRANS. , ,
WAVE , SWELL , WIND , BARO 1022.5, AIR TEMP. DRY 3.5, WET , , CLOUD. TYPE , AMT , WEATHER ,

0	11.30	34.420	5.62							0	11.30	34.420	5.62	26.29	174	174	.0000
10	11.21	34.420	5.81							10	11.21	34.420	5.81	26.31	172	172	.0173
20	11.06	34.480	5.72							20	11.06	34.480	5.72	26.38	165	166	.0343
30	10.71	34.460	6.41							30	10.71	34.460	6.41	26.43	161	161	.0507
35	10.80	34.440	5.52														

KOREA ,TAE PAKY SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, FEB.13,1980, 15.50 KST, DEPTH 102 , CLOP 4, TRANS. 13.0,
WAVE 4, SWELL 1, WIND NE 4, BARO 1023. , AIR TEMP. DRY 4.2, WET , , CLOUD. TYPE CI, AMT 6, WEATHER BC,

0	17.02	34.430	5.92							0	13.02	34.430	5.92	25.97	205	204	.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	17.58	34.450	5.30							10	13.58	74.430	5.30	25.85	215	215	.0210
20	12.85	34.460	5.26							20	12.85	74.460	5.26	26.02	199	199	.0418
30	12.17	34.480	5.61							30	12.17	74.480	5.61	26.17	185	185	.0611
50	12.14	34.410	5.52							50	12.14	74.410	5.52	26.12	190	191	.0988
75	11.69	34.400	5.52							75	11.69	34.400	5.52	26.20	182	184	.1457
100	11.67	34.400	5.61							100	11.67	34.400	5.61	26.20	182	184	.1918
KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, FEB.11.1980, 18.20 KST, DEPTH 87 , COLOR , TPANS. , ,																	
WAVE 4, SWELL 1, WIND NE 4, BARO 1023. , AIR TEMP. DRY 9.2, WET . , CLOUD. TYPE C1, AMT 3, WEATHER BC,																	
0	14.96	34.380	5.41							0	14.96	34.380	5.41	25.52	247	247	.0000
10	15.07	34.370	5.38							10	15.07	34.370	5.38	25.49	250	250	.0249
20	14.87	34.370	5.35							20	14.87	34.370	5.35	25.53	246	246	.0497
30	14.99	34.360	5.41							30	14.99	34.360	5.41	25.50	249	249	.0745
50	14.83	34.370	5.43							50	14.83	34.370	5.43	25.54	245	246	.1242
75	14.80	34.400	5.40							75	14.80	34.400	5.40	25.57	242	244	.1855
82	14.58	34.400	5.37														
KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, FEB.11.1980, 20.00 KST, DEPTH 95 , COLOR , TPANS. , ,																	
WAVE , SWELL , WIND , BARO 1023. , AIR TEMP. DRY 9.0, WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	15.55	34.390	5.65							0	15.55	34.390	5.65	25.40	258	258	.0000
10	15.52	34.390	5.66							10	15.52	34.390	5.66	25.41	258	258	.0259
20	15.47	34.390	5.71							20	15.47	34.390	5.71	25.42	257	257	.0516
30	15.08	34.400	5.68							30	15.08	34.400	5.68	25.51	248	248	.0770
50	15.03	34.340	5.55							50	15.03	34.340	5.55	25.48	251	252	.1271
75	15.00	34.340	5.53							75	15.00	34.340	5.53	25.48	251	252	.1903
90	15.00	34.380	5.50														

OBSERVED																		INTERPOLATED						CALCULATED			
DEPTH		TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									

KOREA ,TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, FEB.11.1980, 21.40 KST, DEPTH 110 , COLOR , TRANS. . .

WAVE , SWELL , WIND , BARO . , AIR TEMP. DRY .0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	15.79	34.350	5.62							0	15.79	34.350	5.62	25.31	267	266	.0000
10	15.83	34.350	5.60							10	15.83	34.350	5.60	25.31	267	267	.0267
20	15.82	34.400	5.60							20	15.82	34.400	5.60	25.35	264	264	.0533
30	15.80	34.410	5.55							30	15.80	34.410	5.55	25.36	262	263	.0797
50	15.71	34.410	5.31							50	15.71	34.410	5.31	25.38	260	262	.1323
75	15.69	34.420	5.40							75	15.69	34.420	5.40	25.39	259	261	.1977
100	15.55	34.420	5.40							100	15.55	34.420	5.40	25.42	256	259	.2629

KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, FEB.11.1980, 23.20 KST, DEPTH 130 , COLOR , TRANS. . .

WAVE , SWELL , WIND , BARO 1023. , AIR TEMP. DRY 8.0, WET . , CLOUD. TYPE , AMT , WEATHER ,

0	15.16	34.340	5.42							0	15.16	34.340	5.42	25.45	254	254	.0000
10	15.08	34.310	5.45							10	15.08	34.310	5.45	25.44	254	254	.0255
20	15.03	34.340	5.46							20	15.03	34.340	5.46	25.48	251	251	.0508
30	15.02	34.230	5.48							30	15.02	34.330	5.48	25.47	252	252	.0760
50	15.03	34.370	5.40							50	15.03	34.370	5.40	25.50	249	250	.1264
75	15.00	34.370	5.37							75	15.00	34.370	5.37	25.51	248	250	.1890
100	14.97	34.400	5.37							100	14.97	34.400	5.37	25.54	246	248	.2514
125	14.58	34.410	5.36							125	14.58	34.410	5.36	25.63	237	240	.3125

3월(March)

KOREA ,TAE BAEK SAN , STATION 400-11 , 33-53.3. N, 128-54.0. E, MAR.12.1980, 22.40 KST, DEPTH 119 , COLOR , TRANS. . .

WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.6, AIR TEMP. DRY 9.0, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	14.29	34.580	6.05							0	14.29	34.580	6.05	25.82	218	218	.0000
10	14.25	34.570	6.20							10	14.25	34.570	6.20	25.82	216	218	.0219

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	14.35	34.590	6.50							20	14.35	34.590	6.50	25.82	219	219	.0438
30	14.40	34.580	6.28							30	14.40	34.580	6.28	25.80	221	221	.0659
50	14.40	34.610	6.30							50	14.40	34.610	6.30	25.82	218	220	.1101
75	13.96	34.550	6.20							75	13.96	34.550	6.20	25.87	214	216	.1646
100	13.95	34.650	5.60							100	13.95	34.650	5.60	25.95	207	209	.2178

KOREA TAE BAEK SAN , STATION 400-17 , 33-51.7. N, 128-39.0. E, MAR.13.1980, 06.20 KST, DEPTH 104 , COLOR , TRANS. , ,
 WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.5, AIR TEMP. DRY 10.2, WET , , CLOUD. TYPE , AMT , WEATHER C ,

0	14.47	34.670	5.80							0	14.47	34.670	5.80	25.85	216	215	.0000
10	14.45	34.710	5.70							10	14.45	34.710	5.70	25.89	212	212	.0214
20	14.53	34.680	5.80							20	14.53	34.680	5.80	25.85	216	216	.0429
30	14.52	34.680	5.95							30	14.52	34.680	5.95	25.85	216	216	.0646
50	14.44	34.670	5.76							50	14.44	34.670	5.76	25.86	215	216	.1079
75	14.39	34.670	5.60							75	14.39	34.670	5.60	25.87	214	216	.1620
100	14.35	34.660	5.70							100	14.35	34.660	5.70	25.87	214	216	.2161

KOREA TAE BAEK SAN , STATION 400-17 , 34-04.6. N, 128-30.0. E, MAR.13.1980, 06.10 KST, DEPTH 90 , COLOR , TRANS. , ,
 WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019. , AIR TEMP. DRY 10.0, WET , , CLOUD. TYPE , AMT , WEATHER C ,

0	17.23	34.490	6.10							0	13.23	34.490	6.10	25.97	204	204	.0000
10	17.02	34.510	6.11							10	13.02	34.510	6.11	26.03	199	199	.0202
20	17.05	34.510	6.20							20	13.05	34.510	6.20	26.02	199	199	.0401
30	17.79	34.510	6.21							30	12.79	34.510	6.21	26.07	194	195	.0509
50	12.50	34.520	6.30							50	12.50	34.520	6.30	26.14	188	189	.0984
75	12.81	34.510	6.30							75	12.61	34.510	6.30	26.07	195	196	.1467
80	12.78	34.690	****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, MAR.13.1986, 05.20 PST, DEPTH 80 , COLOR , TRANS. ,
WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.8 , AIR TEMP. DRY 9.8, WET 10.2, WET 10.2, CLOUD, TYPE , AMT , WEATHER C ,

0	13.16	34.510	6.10							0	13.16	34.510	6.10	26.00	201	201	.0000
10	13.07	34.490	6.10							10	13.07	34.490	6.10	26.00	201	201	.0202
20	12.78	34.530	6.15							20	12.78	34.530	6.15	26.09	193	193	.0399
30	12.99	34.560	6.25							30	12.99	34.560	6.25	26.07	194	195	.0593
50	12.57	34.530	7.30							50	12.57	34.530	7.30	26.13	189	190	.0979
75	12.23	34.560	6.10							75	12.23	34.560	6.10	26.22	180	182	.1445

KOREA ,TAE BAK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, MAR.13.1986, 06.30 PST, DEPTH 65 , COLOR , TRANS. ,
WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.8 , AIR TEMP. DRY 9.8, WET 10.2, WET 10.2, CLOUD, TYPE , AMT , WEATHER EC ,

0	12.61	34.540	6.70							0	12.61	34.540	6.70	26.13	189	188	.0000
10	12.65	34.540	7.50							10	12.65	34.540	7.50	26.13	190	189	.0189
20	12.60	34.560	7.90							20	12.60	34.560	7.90	26.15	187	187	.0378
30	12.71	34.540	7.00							30	12.71	34.540	7.00	26.11	191	191	.0568
50	12.70	34.570	****							50	12.70	34.570	****	26.14	188	189	.0949
60	11.85	34.560	7.40														

KOREA ,TAE BAK SAN , STATION 400-14 , 34-31.0. N, 128-12.2. E, MAR.13.1986, 07.40 PST, DEPTH 43 , COLOR 6, TRANS. 10.0,
WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.8, AIR TEMP. DRY 10.2, WET 10.2, WET 10.2, CLOUD, TYPE , AMT , WEATHER C ,

0	12.64	34.520	6.80							0	12.64	34.520	6.80	26.11	191	190	.0000
10	12.90	34.520	9.00							10	12.90	34.520	9.00	26.06	196	196	.0194
20	12.96	34.520	8.20							20	12.96	34.520	8.20	26.05	197	197	.0390
30	12.50	34.560	6.80							30	12.50	34.560	6.80	26.17	185	186	.0582
40	12.10	34.590	7.30														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, MAR.13.1980, 08.50 KST, DEPTH 35 , COLOR 6, TPANS. 10.0, WAVE NE 7, SWELL NE 1, WIND NE 3, BARO 1020. , AIR TEMP. DRY 12.5, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	12.39	34.560	7.40							0	12.39	34.560	7.40	26.19	183	183	.0000
10	12.35	34.570	7.50							10	12.35	34.570	7.50	26.21	182	182	.0183
20	12.40	34.560	7.60							20	12.40	34.560	7.60	26.19	183	184	.0366
30	11.98	34.610	7.20							30	11.98	34.610	7.20	26.31	172	172	.0544
KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, MAR.13.1980, 02.00 KST, DEPTH 103 , COLOR , TPANS. , WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1019.5, AIR TEMP. DRY 10.6, WET , CLOUD. TYPE , AMT , WEATHER C ,																	
0	14.40	34.650	5.72							0	14.40	34.650	5.72	25.85	216	215	.0000
10	14.45	34.650	5.80							10	14.45	34.650	5.80	25.84	217	217	.0216
20	14.40	34.650	5.70							20	14.40	34.650	5.70	25.85	216	216	.0433
30	14.49	34.670	5.80							30	14.49	34.670	5.80	25.85	216	216	.0650
50	14.40	34.670	5.80							50	14.40	34.670	5.80	25.87	214	215	.1082
75	14.40	34.690	5.80							75	14.40	34.690	5.80	25.88	213	214	.1621
100	14.28	34.690	5.80							100	14.28	34.690	5.80	25.91	210	213	.2156
KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, MAR.14.1980, 01.50 KST, DEPTH 95 , COLOR , TPANS. , WAVE N 7, SWELL NE 1, WIND N 3, BARO 1014. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE , AMT , WEATHER P ,																	
0	14.25	34.470	6.08							0	14.25	34.470	6.08	25.74	226	225	.0000
10	14.25	34.470	5.80							10	14.25	34.470	5.80	25.74	226	226	.0226
20	14.31	34.540	5.90							20	14.31	34.540	5.90	25.79	222	222	.0450
30	14.41	34.540	5.62							30	14.41	34.540	5.62	25.76	224	224	.0674
50	14.40	34.540	6.20							50	14.40	34.540	6.20	25.77	224	225	.1124
75	14.42	34.570	5.68							75	14.42	34.570	5.68	25.78	222	224	.1686
90	14.64	34.510	5.68														

OBSERVED																	INTERPOLATED					CALCULATED				DATE
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY									

KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-14.0. E, MAR.14.1980, 03.30 KST, DEPTH 95 , COLOR , TRANS. ,
 WAVE N 3, SWELL N 1, WIND NW 4, BARO 1013.5, AIR TEMP. DRY 9.3, WET , CLOUD. TYPE , AMT , WEATHER F ,

0	14.74	34.620	5.71							0	14.74	34.620	5.71	25.75	225	224	.0000
10	14.73	34.640	5.80							10	14.73	34.640	5.80	25.77	223	223	.0224
20	14.71	34.630	5.60							20	14.71	34.630	5.60	25.77	223	224	.0648
30	14.80	34.650	6.20							30	14.80	34.650	6.20	25.76	224	224	.0873
50	14.80	34.650	7.10							50	14.80	34.650	7.10	25.76	224	225	.1123
75	14.76	34.650	6.60							75	14.76	34.650	6.60	25.77	223	225	.1686
90	14.68	34.650	5.80														

KOREA ,TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, MAR.15.1980, 09.30 KST, DEPTH 118 , COLOR 3, TRANS. 15.0,
 WAVE NW 5, SWELL NW 2, WIND NW 6, BARO 1022.5, AIR TEMP. DRY 7.3, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	14.39	34.640	6.60							0	14.39	34.640	6.60	25.85	216	216	.0000
10	14.74	34.640	6.25							10	14.74	34.640	6.25	25.77	223	223	.0220
20	14.70	34.630	6.83							20	14.70	34.630	6.83	25.77	223	223	.0444
30	14.75	34.630	6.62							30	14.75	34.630	6.62	25.76	224	225	.0668
50	14.79	34.660	6.70							50	14.79	34.660	6.70	25.77	223	224	.1118
75	14.86	34.630	6.70							75	14.86	34.630	6.70	25.74	226	228	.1685
100	14.81	34.630	6.14							100	14.81	34.630	6.14	25.75	225	228	.2256

KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, MAR.15.1980, 07.50 KST, DEPTH 130 , COLOR 3, TRANS. 15.0,
 WAVE NW 5, SWELL NW 1, WIND NW 5, BARO 1022. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE , AMT , WEATHER FC ,

0	14.49	34.670	6.60							0	14.49	34.670	6.60	25.85	216	216	.0000
10	14.58	34.560	6.30							10	14.58	34.560	6.30	25.74	226	226	.0221

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO3-N	NO2-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	14.59	34.570	6.10							20	14.59	34.570	6.10	25.75	225	276	.0447
30	14.55	34.590	6.53							30	14.55	34.590	6.53	25.77	223	224	.0672
50	14.70	34.580	6.58							50	14.70	34.590	6.58	25.73	227	228	.1125
75	14.67	34.580	6.30							75	14.67	34.580	6.30	25.74	226	228	.1696
100	14.73	34.600	6.38							100	14.73	34.600	6.38	25.74	226	228	.2268
125	14.78	34.580	6.18							125	14.78	34.580	6.18	25.71	228	232	.2844

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KOREA , TAE PAEK SAN , STATION 400-11 , 33-58.2. N, 128-54.0. E, APR.11.1980, 12.10 KST, DEPTH 118 , COLOP 4, TRANS. 11.0.

WAVE 3, SWELL 1, WIND NE 4, BARO 1017. , AIR TEMP. DRY 16.2, WET . , CLOUD. TYPE AS, AMT 8, WEATHER C ,

0	15.50	34.370	6.32							0	15.50	34.370	6.32	25.40	259	259	.0000
10	15.32	34.420	6.71							10	15.32	34.420	6.71	25.47	251	251	.0255
20	15.20	34.460	6.92							20	15.20	34.460	6.92	25.53	246	246	.0505
30	15.16	34.460	6.52							30	15.16	34.480	6.52	25.55	244	244	.0751
50	15.15	34.470	5.61							50	15.15	34.470	5.61	25.55	244	245	.1241
75	15.15	34.470	5.82							75	15.15	34.470	5.82	25.55	244	246	.1856
100	15.10	34.480	5.65							100	15.10	34.480	5.65	25.57	242	245	.2471
113	14.86	34.430	6.51														

KOREA , TAE PAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, APR.11.1980, 14.10 KST, DEPTH 105 , COLOR 4, TRANS. 13.0.

WAVE 3, SWELL 1, WIND NE 4, BARO 1017. , AIR TEMP. DRY 16.5, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	15.62	34.500	6.31							0	15.62	34.500	6.31	25.47	252	252	.0000
10	15.60	34.500	6.50							10	15.60	34.500	6.50	25.47	252	252	.0252
20	15.45	34.450	6.02							20	15.45	34.450	6.02	25.47	252	252	.0504

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
30	15.44	34.460	5.91							30	15.44	34.460	5.91	25.48	251	252	.0757	
50	15.40	34.460	6.21							50	15.40	34.460	6.21	25.49	250	251	.1261	
75	15.40	34.450	5.47							75	15.40	34.450	5.47	25.48	251	253	.1892	
100	16.40	34.440	5.50							100	16.40	34.440	5.50	25.24	273	276	.2554	
KOREA ,TAE BAK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, APR.11.1980, 09.50 KST, DEPTH 90 , COLOR 4, TRANS. 10.0,																		
WAVE 2, SWELL 1, WIND NE 3, BARO 1019. , AIR TEMP. DRY 13.7, WET 0, CLOUD. TYPE 0, AMT , WEATHER BC,																		
0	17.91	34.490	6.51							0	13.91	34.490	6.51	25.83	217	217	.0000	
10	17.80	34.490	6.84							10	13.80	34.490	6.84	25.85	215	215	.0217	
20	13.75	34.490	6.50							20	13.75	34.490	6.50	25.86	214	215	.0432	
30	13.00	34.400	6.90							30	13.00	34.400	6.90	25.95	206	207	.0643	
50	12.62	34.380	7.12							50	12.62	34.380	7.12	26.01	201	202	.1053	
75	12.59	34.420	6.82							75	12.59	34.420	6.82	26.04	197	199	.1554	
85	11.78	34.760	6.32															
KOREA ,TAE BAK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, APR.11.1980, 08.30 KST, DEPTH 82 , COLOR 5, TRANS. 10.0,																		
WAVE 2, SWELL 2, WIND NE 3, BARO 1018. , AIR TEMP. DRY 13.6, WET 0, CLOUD. TYPE AS, AMT 8, WEATHER C ,																		
0	12.87	34.400	6.75							0	12.87	34.400	6.75	25.97	204	204	.0000	
10	12.80	34.410	3.40							10	12.80	34.410	8.40	25.99	202	202	.0203	
20	12.47	34.380	7.22							20	12.47	34.380	7.22	26.04	198	198	.0404	
30	12.36	34.390	7.00							30	12.36	34.390	7.00	26.07	195	196	.0601	
50	12.29	34.390	6.61							50	12.29	34.390	6.61	26.08	194	195	.0992	
75	12.00	34.440	6.41							75	12.00	34.440	6.41	26.17	185	186	.1470	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE BAK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, APR. 9, 1980, 08.00 KST, DEPTH 65 , COLOR 4, TRANS. 13.0,																	
WAVE 7, SWELL 1, WIND NE 4, BARO 1011. , AIR TEMP. DRY 12.8, WET . , CLOUD. TYPE NS, AMT 10, WEATHER F ,																	
0	12.51	34.460	7.32							0	12.51	34.460	7.32	26.09	193	192	.0000
10	12.51	34.450	*****							10	12.51	34.450	*****	26.08	194	193	.0193
20	12.34	34.490	7.51							20	12.34	34.490	7.51	26.15	187	188	.0385
30	12.10	34.480	6.53							30	12.10	34.480	6.53	26.19	184	184	.0571
50	12.00	34.520	*****							50	12.00	34.520	*****	26.24	179	180	.0936
KOREA , TAE BAK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, APR. 8, 1980, 06.20 KST, DEPTH 45 , COLOR , TRANS. . ,																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1018. , AIR TEMP. DRY 11.5, WET . , CLOUD. TYPE , AMT , WEATHER BC,																	
0	12.10	34.500	6.95							0	12.10	34.500	6.95	26.20	182	182	.0000
10	12.17	34.480	6.72							10	12.17	34.480	6.72	26.17	185	185	.0184
20	12.10	34.490	7.05							20	12.10	34.490	7.05	26.19	183	183	.0369
30	12.00	34.520	7.30							30	12.00	34.520	7.30	26.24	179	179	.0550
40	11.02	34.500	6.50														
KOREA , TAE BAK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, APR. 8, 1980, 07.30 KST, DEPTH 30 , COLOR 5, TRANS. 6.0,																	
WAVE 2, SWELL 1, WIND NE 3, BARO 1018. , AIR TEMP. DRY 12.5, WET . , CLOUD. TYPE NS, AMT , WEATHER B ,																	
0	11.79	34.440	7.11							0	11.79	34.440	7.11	26.21	181	181	.0000
10	11.75	34.450	7.02							10	11.75	34.450	7.02	26.23	180	180	.0181
20	11.70	34.460	7.11							20	11.70	34.460	7.11	26.25	178	178	.0360
30	11.70	34.490	7.32							30	11.70	34.490	7.32	26.27	176	176	.0538

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, APR.11.1980, 16.00 KST, DEPTH 102 , COLOR 4, TRANS. 16.0,
WAVE 3, SWELL 1, WIND NE 4, BARO 1015. , AIR TEMP. DRY 16.4, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	15.63	34.560	6.52							0	15.63	34.560	6.52	25.51	248	247	.0000
10	15.49	34.570	5.90							10	15.49	34.570	5.90	25.55	244	244	.0246
20	15.36	34.560	7.31							20	15.36	34.560	7.31	25.57	242	242	.0490
30	15.30	34.560	6.02							30	15.30	34.560	6.02	25.59	241	241	.0732
50	15.32	34.550	6.32							50	15.32	34.550	6.32	25.57	242	243	.1218
75	15.18	34.580	5.35							75	15.18	34.580	5.35	25.63	237	239	.1821
100	14.70	34.520	5.50							100	14.70	34.520	5.50	25.69	231	234	.2412

KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, APR.15.1980, 02.50 KST, DEPTH 93 , COLOR , TRANS. . ,
WAVE , SWELL , WIND NW 4, BARO 1012. , AIR TEMP. DRY 9.3, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	16.21	34.460	*****							0	16.21	34.460	*****	25.30	268	267	.0000
10	16.20	34.480	*****							10	16.20	34.480	*****	25.32	266	266	.0267
20	16.12	34.460	*****							20	16.12	34.460	*****	25.32	266	266	.0534
30	16.19	34.480	*****							30	16.19	34.480	*****	25.32	266	266	.0800
50	15.62	34.440	*****							50	15.62	34.440	*****	25.42	256	257	.1325
75	15.55	34.430	*****							75	15.55	34.430	*****	25.43	256	257	.1970
88	14.98	34.430	*****														

KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, APR.15.1980, 01.00 KST, DEPTH 100 , COLOR , TRANS. . ,
WAVE 2, SWELL 3, WIND NW 4, BARO 1013.5, AIR TEMP. DRY 9.4, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	15.09	34.470	*****							0	15.09	34.470	*****	25.36	262	262	.0000
10	15.98	34.500	*****							10	15.98	34.500	*****	25.39	260	260	.0261

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

20	15.11	34.460	*****						20	15.11	34.480	*****	25.57	243	243	.0513
30	14.90	34.480	*****						30	14.90	34.480	*****	25.61	238	239	.0754
50	14.89	34.460	*****						50	14.89	34.460	*****	25.60	240	241	.1235
75	13.85	34.460	*****						75	13.85	34.460	*****	25.82	218	220	.1812
95	13.84	34.460	*****													

KOREA TAE BAK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, APR.14.1980, 23.20 KST, DEPTH 110 , COLOR , TRANS. ,
WAVE 2, SWELL 3, WIND NW 5, BARO 1012. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	16.15	34.490	*****						0	16.15	34.490	*****	25.34	264	264	.0000
10	16.18	34.480	*****						10	16.18	34.480	*****	25.33	265	265	.0265
20	16.24	34.480	*****						20	16.24	34.480	*****	25.31	267	267	.0532
30	16.20	34.480	*****						30	16.20	34.480	*****	25.32	266	267	.0799
50	16.24	34.480	*****						50	16.24	34.480	*****	25.31	267	268	.1335
75	16.26	34.480	*****						75	16.26	34.480	*****	25.31	267	269	.2007
100	16.00	34.480	*****						100	16.00	34.480	*****	25.37	262	264	.2675

KOREA TAE PAK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, APR.14.1980, 21.30 KST, DEPTH 110 , COLOR , TRANS. ,
WAVE 2, SWELL 3, WIND NW 5, BARO 1012. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	15.08	34.450	*****						0	15.08	34.450	*****	25.55	244	244	.0000
10	14.99	34.450	*****						10	14.99	34.450	*****	25.57	242	242	.0244
20	14.08	34.450	*****						20	14.98	34.450	*****	25.57	242	242	.0486
30	14.96	34.450	*****						30	14.96	34.450	*****	25.58	242	242	.0729
50	14.05	34.450	*****						50	14.95	34.450	*****	25.58	241	243	.1215
75	14.05	34.460	*****						75	14.95	34.460	*****	25.59	241	243	.1823
100	14.87	*****	*****						100	14.87	*****	*****	*****	***	***	*****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

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KOREA ,TAE BAEK SAN , STATION 400-11 , 33-52.3. N, 128-54.0. E, JUN.11.1980, 23.10 KST, DEPTH 110 , COLOR , TRANS. , ,
 WAVE , SWELL , WIND NE 2, BARO 1002.5, AIR TEMP. DRY 20.0, WET , , CLOUD. TYPE , AMT , WEATHER PC,

0	20.90	33.630	5.97							0	20.90	33.630	5.97	23.50	439	439	.0000
10	20.63	33.610	5.76							10	20.63	33.610	5.76	23.56	434	434	.0437
20	19.37	34.040	6.14							20	19.37	34.040	6.14	24.21	371	372	.0840
30	19.67	34.050	6.76							30	19.67	34.050	6.76	24.14	378	379	.1216
50	16.35	34.130	6.52							50	16.35	34.130	6.52	25.02	295	296	.1892
75	15.37	33.980	6.04							75	15.37	33.980	6.04	25.12	285	286	.2621
100	14.82	34.460	5.54							100	14.82	34.460	5.54	25.61	238	241	.3281

KOREA ,TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, JUN.11.1980, 21.20 KST, DEPTH 110 , COLOR , TRANS. , ,
 WAVE , SWELL , WIND NW 2, BARO 1002.2, AIR TEMP. DRY 20.7, WET , , CLOUD. TYPE , AMT , WEATHER BC,

0	21.39	33.800	5.15							0	21.39	33.800	5.15	23.50	440	439	.0000
10	20.99	33.820	****							10	20.99	33.820	****	23.62	428	428	.0434
20	18.88	33.850	5.30							20	18.88	33.850	5.30	24.19	373	374	.0836
30	16.49	33.930	5.43							30	16.49	33.930	5.43	24.83	312	313	.1179
50	16.11	34.560	****							50	16.11	34.560	****	25.40	258	259	.1753
75	15.11	34.560	4.12							75	15.11	34.560	4.12	25.63	237	239	.2376
100	14.80	34.570	4.13							100	14.80	34.570	4.13	25.70	230	232	.2966

KOREA ,TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, JUN.12.1980, 01.30 KST, DEPTH 80 , COLOR , TRANS. , ,
 WAVE , SWELL , WIND SW 2, BARO 1002.8, AIR TEMP. DRY 20.2, WET , , CLOUD. TYPE , AMT , WEATHER BC,

0	19.74	33.370	6.00							0	19.74	33.370	6.00	23.61	429	429	.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	17.61	33.940	5.03							10	17.61	33.940	5.03	24.58	337	337	.0383
20	17.89	33.980	5.97							20	17.89	33.980	5.97	24.54	340	341	.0723
30	17.99	34.450	****							30	17.99	34.450	****	24.87	309	309	.1048
50	15.60	34.270	4.96							50	15.60	34.270	4.96	25.30	268	269	.1628
75	14.92	34.360	4.20							75	14.92	34.360	4.20	25.52	247	249	.2277

KOREA ,TAE BAK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, JUN.12.1980, 02.50 KST, DEPTH 82 , COLOR , TRANS. . .
WAVE NW 2, SWELL , WIND W 2, BARO 1002. , AIR TEMP. DRY 18.8, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	17.91	33.350	5.43							0	17.91	33.350	5.43	24.05	387	386	.0000
10	16.62	33.430	6.12							10	16.62	33.430	6.12	24.42	352	352	.0370
20	14.50	33.470	6.15							20	14.50	33.470	6.15	24.92	304	304	.0698
30	14.90	34.210	6.03							30	14.90	34.210	6.03	25.40	258	259	.0930
50	14.75	33.930	4.76							50	14.75	33.930	4.76	25.22	275	276	.1516
75	14.47	34.200	4.82							75	14.47	34.200	4.82	25.49	250	252	.2177

KOREA ,TAE BAK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, JUN.12.1980, 04.10 KST, DEPTH 70 , COLOR , TRANS. . .
WAVE NW 1, SWELL , WIND W 2, BARO 1001.5, AIR TEMP. DRY 18.2, WET . , CLOUD. TYPE , AMT , WEATHER C ,

0	16.34	33.140	5.73							0	16.34	33.140	5.73	24.26	367	366	.0000
10	15.13	33.500	5.43							10	15.13	33.500	5.43	24.81	315	315	.0341
20	14.30	33.840	5.41							20	14.30	33.840	5.41	25.25	273	273	.0635
30	13.81	33.950	4.93							30	13.81	33.950	4.93	25.44	255	256	.0900
50	14.18	34.190	4.72							50	14.18	34.190	4.72	25.54	245	246	.1403
65	14.59	34.480	4.32														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, JUN.12.1980, 07.20 KST, DEPTH 40 , COLOR , TRANS. . .																	
WAVE NW 1, SWELL , WIND W 2, BARO 1002. , AIR TEMP. DRY 20.5, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	17.65	33.840	5.87							0	17.65	33.840	5.87	24.49	345	345	.0000
10	16.85	33.850	5.42							10	16.85	33.850	5.42	24.69	326	326	.0336
20	15.29	33.890	5.84							20	15.29	33.890	5.84	25.07	290	290	.0645
30	13.20	33.930	5.04							30	13.20	33.930	5.04	25.54	245	245	.0912
KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, JUN.12.1980, 06.00 KST, DEPTH 40 , COLOR , TRANS. . .																	
WAVE NW 1, SWELL , WIND W 2, BARO 1001.5, AIR TEMP. DRY 19.8, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	19.19	33.540	5.52							0	19.19	33.540	5.52	23.88	403	403	.0000
10	14.69	33.810	5.70							10	14.69	33.810	5.70	25.14	283	283	.0343
20	14.15	33.970	5.73							20	14.15	33.970	5.73	25.38	260	261	.0616
30	14.03	34.020	5.30							30	14.03	34.020	5.30	25.44	254	255	.0874
KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, JUN.11.1980, 19.30 KST, DEPTH 100 , COLOR , TRANS. . .																	
WAVE NW 1, SWELL , WIND NW 2, BARO 1002. , AIR TEMP. DRY 20.0, WET . , CLOUD. TYPE CC, AMT 6, WEATHER BC ,																	
0	20.80	33.520	5.24							0	20.80	33.520	5.24	23.44	445	445	.0000
10	20.55	*****	5.29							10	20.55	*****	5.29	*****	***	***	*****
20	18.72	33.560	5.82							20	18.72	33.560	5.82	24.01	391	391	*****
30	16.21	34.090	4.89							30	16.21	34.090	4.89	25.02	295	295	*****
50	16.00	34.420	*****							50	16.00	34.420	*****	25.32	266	267	*****
75	15.92	34.580	4.33							75	15.92	34.580	4.33	25.46	253	254	*****
05	14.09	34.570	4.43														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D T	SVA	D-DY
KOREA ,TAE DAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, JUN.10.1980, 21.20 KST, DEPTH 95 , COLOR , TRANS. , ,																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1006. , AIR TEMP. DRY 18.2, WET , , CLOUD. TYPE , AMT , WEATHER C ,																	
0	17.61	33.230	6.05							0	17.61	33.230	6.05	24.03	389	388	.0000
10	17.20	33.400	5.84							10	17.20	33.400	5.84	24.26	367	367	.0378
20	16.11	33.830	6.04							20	16.11	33.830	6.04	24.84	311	312	.0718
30	16.86	33.790	5.92							30	16.86	33.790	5.92	24.64	331	331	.1040
50	16.04	33.820	5.42							50	16.04	33.820	5.42	24.85	311	312	.1684
75	15.65	34.200	5.38							75	15.65	34.200	5.38	25.23	274	276	.2420
90	15.17	34.220	5.53														
KOREA ,TAE DAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, JUN.10.1980, 23.10 KST, DEPTH 100 , COLOR , TRANS. , ,																	
WAVE NW 2, SWELL NW 1, WIND N 3, BARO 1005.5, AIR TEMP. DRY 17.8, WET , , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	17.73	33.080	5.58							0	17.73	33.080	5.58	23.89	402	402	.0000
10	17.41	33.170	5.72							10	17.41	33.170	5.72	24.04	388	388	.0396
20	18.12	33.610	5.67							20	18.12	33.610	5.67	24.20	373	373	.0777
30	17.53	33.720	5.63							30	17.53	33.720	5.63	24.43	351	352	.1140
50	16.96	34.270	5.62							50	16.96	34.270	5.62	24.98	298	299	.1792
75	15.78	34.480	4.72							75	15.78	34.480	4.72	25.42	257	259	.2490
95	14.81	34.600	4.42														
KOREA ,TAE DAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, JUN.11.1980, 00.40 KST, DEPTH 105 , COLOR , TRANS. , ,																	
WAVE NW 2, SWELL NW 1, WIND N 3, BARO 1005.5, AIR TEMP. DRY 17.5, WET , , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	17.94	33.030	5.53							0	17.94	33.030	5.53	23.80	411	410	.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D-DY
10	19.23	34.190	5.32							10	19.23	34.190	5.32	24.76	357	357	.0384
20	18.22	34.140	5.62							20	18.22	34.140	5.62	24.58	337	337	.0732
30	16.79	34.250	5.62							30	16.79	34.250	5.62	25.01	296	296	.1049
50	16.06	34.460	5.33							50	16.06	34.460	5.33	25.34	264	265	.1612
75	15.10	34.590	4.63							75	15.10	34.590	4.63	25.65	234	276	.2240
100	14.62	34.530	4.42							100	14.62	34.530	4.42	25.71	229	231	.2825
KOREA ,TAE BAK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, JUN.11.1980, 02.30 PST, DEPTH 130 , COLOR , TRANS. ,																	
WAVE NW 2, SWELL NW 1, WIND N 3, BARO 1004. , AIR TEMP. DRY 17.5, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	18.20	33.140	6.30							0	18.20	33.140	6.30	23.82	409	408	.0000
10	17.94	33.110	6.13							10	17.94	33.110	6.13	23.86	405	405	.0407
20	17.69	33.200	6.13							20	17.69	33.200	6.13	23.99	393	393	.0807
30	17.88	33.290	6.27							30	17.88	33.290	6.27	24.01	390	391	.1199
50	17.02	33.710	5.94							50	17.02	33.710	5.94	24.54	340	341	.1932
75	16.45	34.240	5.43							75	16.45	34.240	5.43	25.08	289	291	.2724
100	15.89	34.400	5.12							100	15.89	34.400	5.12	25.33	265	268	.3423
125	16.02	34.390	5.44							125	16.02	34.390	5.44	25.29	269	272	.4009

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KOREA ,TAE BAK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, AUG.15.1980, 08.20 PST, DEPTH 116 , COLOR , TRANS. . .																	
WAVE 3, SWELL 1, WIND NE 4, BARO 1005. , AIR TEMP. DRY 25.4, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	24.10	32.920	4.81							0	24.10	32.920	4.81	22.06	577	577	.0000
10	23.10	32.910	4.81							10	23.10	32.910	4.81	22.34	550	550	.0564

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	O-DY
20	27.86	33.040	4.81							20	23.66	33.040	4.81	22.22	561	562	.1120
30	27.40	32.930	4.81							30	23.40	32.930	4.81	22.27	557	557	.1680
50	22.59	32.840	4.90							50	22.59	32.840	4.90	22.44	541	542	.2781
75	21.00	33.060	4.81							75	21.00	33.060	4.81	23.04	483	485	.4066
100	18.44	32.920	4.90							100	18.44	32.920	4.90	23.59	430	433	.5216
110	17.40	*****	4.81														
KOREA ,TAE RACK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, AUG.15.1980, 06.30 KST, DEPTH 110 , COLOR , TRANS. . .																	
WAVE NE 3, SWELL 1, WIND NE 4, BARO 1005. , AIR TEMP. DRY 24.0, WET . , CLOUD. TYPE AS. AMT 9, WEATHER C ,																	
0	25.35	33.030	4.72							0	25.35	33.030	4.72	21.77	605	604	.0000
10	25.38	33.370	4.71							10	25.38	33.370	4.71	22.02	581	581	.0593
20	24.65	33.800	4.70							20	24.65	33.800	4.70	22.56	529	529	.1149
30	23.15	33.910	4.82							30	23.15	33.910	4.82	23.09	479	480	.1654
50	19.68	34.020	5.02							50	19.68	34.020	5.02	24.12	380	382	.2516
75	17.38	34.200	4.00							75	17.38	34.200	4.00	24.83	313	315	.3388
100	17.28	34.590	3.81							100	17.28	34.590	3.81	25.15	282	285	.4138
KOREA ,TAE RACK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, AUG.15.1980, 10.40 KST, DEPTH 95 , COLOR , TRANS. . .																	
WAVE NE 5, SWELL NE 2, WIND N 5, BARO 1005. , AIR TEMP. DRY . , WET . , CLOUD. TYPE , AMT , WEATHER ,																	
0	24.29	33.090	4.81							0	24.29	33.090	4.81	22.13	570	570	.0000
10	24.29	32.990	4.75							10	24.29	32.990	4.75	22.06	577	577	.0574
20	24.20	33.050	4.81							20	24.20	33.050	4.81	22.13	570	571	.1148
30	23.94	33.020	4.82							30	23.94	33.020	4.82	22.18	565	566	.1717
50	22.43	33.000	4.94							50	22.43	33.000	4.94	22.60	525	526	.2810
75	20.63	33.140	*****							75	20.63	33.140	*****	23.20	468	470	.4057
90	16.90	33.470	5.11														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA ,TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, AUG.15.1980, 12.00 KST, DEPTH 80 , COLOR , TRANS. . .																		
WAVE NE 5, SWELL NE 1, WIND NE 5, BARO 1004.8, AIR TEMP. DRY 21.4, WET . , CLOUD. TYPE NS, AMT 10, WEATHER P ,																		
0	24.07	32.620	4.81							0	24.07	32.620	4.81	21.84	598	597	.0000	
10	24.10	32.640	4.76							10	24.10	32.640	4.76	21.85	597	597	.0598	
20	24.09	32.540	4.90							20	24.09	32.540	4.90	21.78	604	604	.1199	
30	23.90	32.620	4.80							30	23.90	32.620	4.80	21.89	593	594	.1798	
50	23.90	32.730	4.80							50	23.90	32.730	4.80	21.98	585	586	.2979	
75	23.70	33.020	4.80							75	23.70	33.020	4.80	22.25	558	561	.4414	
KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, AUG.15.1980, 13.20 KST, DEPTH 65 , COLOR , TRANS. . .																		
WAVE NE 5, SWELL NE 1, WIND NE 5, BARO 1005. , AIR TEMP. DRY 21.8, WET . , CLOUD. TYPE NS, AMT 10, WEATHER R ,																		
0	24.02	*****	4.80							0	24.02	*****	4.80	*****	***	***	.0000	
10	24.03	32.650	4.81							10	24.03	32.650	4.81	21.88	594	594	*****	
20	24.05	32.760	4.76							20	24.05	32.760	4.76	21.96	587	587	*****	
30	23.56	32.820	4.81							30	23.56	32.820	4.81	22.14	569	570	*****	
50	23.10	32.760	4.81							50	23.10	32.780	4.81	22.25	559	561	*****	
60	21.28	32.930	4.90															
KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, AUG.15.1980, 16.30 KST, DEPTH 43 , COLOR , TRANS. . .																		
WAVE NE 5, SWELL E 1, WIND NE 5, BARO 1004. , AIR TEMP. DRY 21.5, WET . , CLOUD. TYPE NS, AMT 10, WEATHER P ,																		
0	23.20	32.470	4.91							0	23.20	32.470	4.91	21.08	584	584	.0000	
10	23.15	32.480	4.95							10	23.15	32.480	4.95	22.01	582	582	.0584	
20	23.13	32.490	4.95							20	23.13	32.490	4.95	22.02	581	581	.1166	
30	22.18	32.730	4.82							30	22.18	32.730	4.82	22.47	538	539	.1727	
40	20.88	32.730	4.91															

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 127-00.5. E, AUG.15.1980, 15.10 KST, DEPTH 30 , COLOP , TRANS. ,																	
WAVE	5, SWELL	1, WIND NE	5, BARO 1004.	AIR TEMP. DRY	21.6, WFT												
0	23.80	37.540	5.21							0	23.80	37.540	5.21	21.86	596	596	.0000
10	23.83	37.560	4.85							10	23.83	37.560	4.85	21.87	595	595	.0596
20	23.04	37.500	4.95							20	23.04	37.500	4.95	22.05	578	578	.1183
30	21.50	37.620	5.61							30	21.50	37.620	5.61	22.57	528	529	.1737
KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 127-23.9. E, AUG.15.1980, 04.40 KST, DEPTH 105 , COLOP , TRANS. ,																	
WAVE	SW	2, SWELL SW	1, WIND SE	4, BARO 1005.	AIR TEMP. DRY	24.6, WFT											
0	25.09	33.170	4.81							0	25.09	33.170	4.81	21.96	587	587	.0000
10	25.03	33.340	4.71							10	25.03	33.340	4.71	22.10	573	573	.0580
20	25.30	33.680	4.80							20	25.30	33.680	4.80	22.13	571	571	.1153
30	25.11	33.540	4.81							30	25.11	33.540	4.81	22.23	561	562	.1720
50	24.75	33.500	5.00							50	24.75	33.500	5.00	22.31	554	555	.2838
75	19.86	33.770	5.12							75	19.86	33.770	5.12	23.88	403	405	.4039
100	16.84	34.260	4.31							100	16.84	34.260	4.31	25.00	296	299	.4920
KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, AUG.11.1980, 03.50 KST, DEPTH 93 , COLOR , TRANS. ,																	
WAVE	2, SWELL	1, WIND NE	3, BARO 1004.	AIR TEMP. DRY	23.5, WFT												
0	24.66	32.440	4.71							0	24.66	32.440	4.71	21.53	627	627	.0000
10	24.40	32.510	4.80							10	24.40	32.510	4.80	21.66	615	615	.0622
20	24.39	32.490	4.71							20	24.39	32.490	4.71	21.65	616	616	.1278
30	23.90	32.640	4.90							30	23.90	32.640	4.90	21.91	591	592	.1843

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

50	19.47	33.280	5.71							50	19.47	33.280	5.71	23.61	429	430	.2866
75	16.34	34.210	4.22							75	16.34	34.210	4.22	25.08	289	291	.3768
85	15.27	34.130	4.40														

KOREA ,TAE PAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, AUG-11,1960, 05.40 KST, DEPTH 105 , COLOR , TPANS. , ,
WAVE 2. SWELL 1, WIND NE 3, BARO 1004. , AIR TEMP. DRY 23.4, WET . , CLOUD. TYPE AS, AMT 3, WEATHER FC,

0	24.89	32.790	4.68							0	24.89	32.790	4.68	21.73	609	608	.0000
10	24.90	32.860	4.56							10	24.90	32.860	4.56	21.78	604	604	.0607
20	24.77	32.930	4.60							20	24.77	32.930	4.60	21.87	595	596	.1207
30	20.67	33.090	5.20							30	20.67	33.090	5.20	23.15	473	473	.1742
50	16.57	33.550	5.19							50	16.57	33.550	5.19	24.52	342	343	.2559
75	15.30	34.040	4.71							75	15.30	34.040	4.71	25.19	279	281	.3340
100	14.67	33.960	4.93							100	14.67	33.960	4.93	25.26	272	274	.4034

KOREA ,TAE PAEK SAN , STATION 400-24 , 33-31.7. N, 127-11.8. E, AUG-11,1960, 07.30 KST, DEPTH 110 , COLOR 3, TPANS. 21.0,
WAVE NW 3, SWELL NW 1, WIND NW 3, BARO 1005.8, AIR TEMP. DRY 24.2, WET . , CLOUD. TYPE AC, AMT 4, WEATHER FC,

0	24.33	32.510	4.75							0	24.33	32.510	4.75	21.69	613	613	.0000
10	23.71	32.550	4.72							10	23.71	32.550	4.72	21.90	593	593	.0603
20	23.95	32.610	4.90							20	23.95	32.610	4.90	21.87	595	595	.1198
30	22.90	32.950	4.93							30	22.90	32.950	4.93	22.43	542	542	.1767
50	19.99	33.500	5.14							50	19.99	33.500	5.14	23.64	426	427	.2737
75	17.18	33.850	4.83							75	17.18	33.850	4.83	24.61	334	336	.3692
100	14.53	34.320	4.80							100	14.53	34.320	4.80	25.57	242	245	.4418

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, AUG.11.1980, 09.00 KST, DEPTH 129 , COLOR 3, TRANS. 21.0.																	
WAVE 2, SWELL 1, WIND NW 3, BARO 1006. , AIR TEMP. DRY 24.8, WET . , CLOUD. TYPE AC, AMT 3, WEATHER PC.																	
0	25.00	32.790	4.57							0	25.00	32.790	4.57	21.70	612	612	.0000
10	24.19	32.780	4.68							10	24.19	32.780	4.68	21.93	590	590	.0601
20	23.77	32.740	4.79							20	23.77	32.740	4.79	22.02	581	581	.1137
30	22.97	32.850	4.80							30	22.97	32.850	4.80	22.34	551	551	.1753
50	20.51	33.150	4.81							50	20.51	33.150	4.81	23.24	464	464	.2771
75	18.53	33.770	4.60							75	18.53	33.770	4.60	24.22	371	373	.3820
100	16.51	33.890	5.10							100	16.51	33.880	5.10	24.79	317	319	.4636
125	15.90	34.120	4.89							125	15.90	34.120	4.89	25.11	286	289	.5447

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KOREA ,TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, SEP.17.1980, 08.10 KST, DEPTH 112 , COLOR 3, TRANS. 16.0.																	
WAVE 4, SWELL 1, WIND NW 4, BARO 1012. , AIR TEMP. DRY 21.0, WET . , CLOUD. TYPE CI, AMT 4, WEATHER EC.																	
0	25.00	33.520	5.48							0	25.00	33.520	5.48	22.25	559	559	.0000
10	25.02	33.510	4.81							10	25.02	33.510	4.81	22.23	561	561	.0560
20	22.00	34.730	4.87							20	22.00	34.380	4.87	23.77	414	414	.1048
30	17.07	34.120	4.32							30	17.97	34.120	4.32	24.63	332	333	.1422
50	17.68	34.770	4.01							50	17.68	34.370	4.01	24.89	307	308	.2064
75	16.46	34.290	4.60							75	16.46	34.290	4.60	25.12	285	287	.2810

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, SEP.17.1980, 06.20 KST, DEPTH 110 , COLOR , TRANS. . .

WAVE NW 4, SWELL NE 1, WIND NW 4, BARO 1012. , AIR TEMP. DRY 21.2, WET . , CLOUD. TYPE CI, AMT 4, WEATHER FC,

0	24.66	33.600	5.52							0	24.66	33.600	5.52	22.41	544	543	.0000
10	24.80	33.680	5.11							10	24.80	33.680	5.11	22.43	542	542	.0543
20	24.20	33.640	5.10							20	24.20	33.640	5.10	22.58	528	528	.1079
30	23.98	33.820	4.61							30	23.98	33.820	4.61	22.78	509	509	.1598
50	20.62	34.250	4.12							50	20.62	34.250	4.12	24.05	387	389	.2497
75	17.61	34.330	3.92							75	17.61	34.330	3.92	24.87	308	310	.3372
100	16.65	34.410	3.81							100	16.65	34.410	3.81	25.16	281	284	.4116

KOREA ,TAE BAEK SAN , STATION 400-12 , 34-04.6. N, 128-30.0. E, SEP.17.1980, 12.10 KST, DEPTH 80 , COLOR , TRANS. . .

WAVE 4, SWELL 1, WIND NW 4, BARO 1012. , AIR TEMP. DRY 21.4, WET . , CLOUD. TYPE , AMT , WEATHER FC,

0	23.19	31.200	5.32							0	23.19	31.200	5.32	21.03	676	676	.0000
10	24.41	32.400	5.52							10	24.41	32.400	5.52	21.58	623	623	.0650
20	23.42	32.220	5.40							20	23.42	32.220	5.40	21.73	609	609	.1266
30	19.70	33.130	5.21							30	18.70	33.130	5.21	23.69	421	422	.1782
50	16.51	33.730	4.51							50	16.51	33.730	4.51	24.67	327	329	.2534
75	15.27	33.970	4.35							75	15.27	33.970	4.35	25.14	283	285	.3302

KOREA ,TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, SEP.17.1980, 01.00 KST, DEPTH 74 , COLOR , TRANS. . .

WAVE 4, SWELL 1, WIND NW 4, BARO 1012.2, AIR TEMP. DRY 21.8, WET . , CLOUD. TYPE , AMT , WEATHER FC,

0	23.19	31.600	5.36							0	23.19	31.600	5.38	21.33	647	647	.0000
10	23.30	31.760	5.22							10	23.39	31.780	5.22	21.41	639	639	.0644

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								
20	24.60	32.650	5.02							20	24.60	32.650	5.02	21.71	611	611	.1269								
30	23.99	32.650	4.91							30	23.99	32.650	4.91	21.89	593	594	.1872								
50	16.24	33.780	4.80							50	16.24	33.780	4.80	24.78	318	319	.2786								
70	15.30	34.110	4.10																						
KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, SEP.16.1980, 73.40 KST, DEPTH 55 , COLOR , TRANS. , ,																									
WAVE 4, SWELL 1, WIND NW 4, BARO 1010. , AIR TEMP. DRY 21.2, WET , CLOUD. TYPE , AMT , WEATHER EC,																									
0	23.11	31.400	5.25							0	23.11	31.400	5.25	21.20	650	659	.0000								
10	23.20	31.490	5.30							10	23.20	31.490	5.30	21.24	655	655	.0658								
20	23.31	31.660	5.21							20	23.31	31.660	5.21	21.34	646	646	.1309								
30	23.20	31.820	5.31							30	23.20	31.820	5.31	21.49	631	632	.1949								
50	19.02	32.910	4.78							50	19.02	32.910	4.78	23.44	445	446	.3028								
KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, SEP.16.1980, 72.20 KST, DEPTH 45 , COLOR , TRANS. , ,																									
WAVE 4, SWELL 1, WIND NW 4, BARO 1010. , AIR TEMP. DRY 21.8, WET , CLOUD. TYPE , AMT , WEATHER EC,																									
0	23.00	30.940	5.71							0	23.00	30.940	5.71	20.89	690	689	.0000								
10	23.00	30.940	5.61							10	23.00	30.940	5.61	20.89	690	690	.0690								
20	22.80	31.490	5.26							20	22.80	31.490	5.26	21.36	644	645	.1358								
30	22.80	31.570	5.17							30	22.80	31.570	5.17	21.42	630	629	.2000								
40	22.70	31.720	4.78																						

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	Q2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	Q2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, SEP.16.1980, 02.00 WST, DEPTH 35 , COLOR , TRANS. . ,																	
WAVE 4, SWELL 1, WIND NW 4, BARO 1010. , AIR TEMP. DRY 23.7, WET . , CLOUD. TYPE , AMT , WEATHER FC,																	
0	27.80	32.040	5.15							0	23.60	32.040	5.15	21.49	632	632	.0000
10	23.80	32.060	5.12							10	23.60	32.060	5.12	21.50	631	631	.0632
20	23.90	32.150	5.16							20	23.90	32.150	5.16	21.54	627	627	.1261
30	27.60	32.230	5.50							30	23.60	32.230	5.50	21.69	613	613	.1882
KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, SEP.17.1980, 04.30 WST, DEPTH 100 , COLOR , TRANS. . ,																	
WAVE 4, SWELL 1, WIND NW 4, BARO 1011.1, AIR TEMP. DRY 21.0, WET . , CLOUD. TYPE , AMT , WEATHER FC,																	
0	23.30	32.340	5.31							0	23.30	32.340	5.31	21.86	597	596	.0000
10	27.25	32.390	5.28							10	23.25	32.390	5.28	21.91	592	592	.0594
20	24.22	32.910	5.32							20	24.22	32.910	5.32	22.02	581	581	.1181
30	22.25	33.900	4.61							30	22.25	33.900	4.61	23.33	455	456	.1700
50	17.69	34.020	3.72							50	17.69	34.020	3.72	24.62	333	334	.2491
75	17.55	34.500	3.91							75	17.55	34.560	3.91	25.06	290	292	.3276
95	15.15	34.470	3.71														
KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, SEP.13.1980, 22.10 WST, DEPTH 93 , COLOR , TRANS. . ,																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1007.5, AIR TEMP. DRY 22.8, WET . , CLOUD. TYPE , AMT , WEATHER BC,																	
0	24.50	32.520	5.30							0	24.50	32.520	5.30	21.64	617	617	.0000
10	24.60	32.520	5.52							10	24.60	32.520	5.52	21.61	620	620	.0619
20	24.90	32.070	5.31							20	24.90	32.970	5.31	21.86	596	596	.1228

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

70	20.51	37.600	5.36							30	20.51	73.600	5.36	23.58	432	432	.1742
50	18.39	34.720	4.95							50	18.39	74.220	4.95	24.60	335	376	.2512
75	17.79	34.710	4.24							75	17.79	74.310	4.24	24.81	314	316	.3328
90	17.86	34.670	5.02														

KOREA , TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, SEP.13.1980, 20.20 KST, DEPTH 90 , COLOR , TRANS. . .
 WAVE NE 2, SWELL N 1, WIND NE 2, BARO 1006.8, AIR TEMP. DRY 22.6, WET . , CLOUD. TYPE , AMT , WEATHER PC,

0	24.15	32.430	5.22							0	24.15	32.430	5.22	21.68	614	613	.0000
10	24.16	32.460	5.95							10	24.16	32.460	5.95	21.70	612	612	.0613
20	24.20	32.630	5.41							20	24.20	32.630	5.41	21.81	601	601	.1220
30	23.85	32.830	6.38							30	23.85	32.830	6.38	22.07	576	577	.1809
50	20.13	34.270	4.70							50	20.13	34.270	4.70	24.19	374	375	.2752
75	17.90	34.120	4.61							75	17.90	34.120	4.61	24.64	330	332	.3648
85	17.50	*****	5.60														

KOREA , TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, SEP.13.1980, 18.30 KST, DEPTH 100 , COLOR , TRANS. . .
 WAVE NE 2, SWELL N 1, WIND NE 2, BARO 1005.5, AIR TEMP. DRY 23.0, WET . , CLOUD. TYPE CS, AMT 2, WEATHER B ,

0	24.76	32.690	5.79							0	24.76	32.690	5.79	21.69	612	612	.0000
10	24.78	32.730	4.74							10	24.78	32.730	4.74	21.72	610	610	.0611
20	23.58	32.940	4.81							20	23.58	32.940	4.81	22.23	561	561	.1198
30	18.40	34.050	****							30	18.40	34.050	****	24.47	347	348	.1653
50	17.51	34.250	4.08							50	17.51	34.250	4.08	24.84	312	313	.2315
75	15.63	34.000	4.39							75	15.63	34.080	4.39	25.14	283	285	.3053
85	15.70	34.120	5.25														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA , TAE RAK SAN , STATION 400-27 , 33-30.7° N, 127-04.5° E, OFF. 17.1966, 16.40 VST, DEPTH 125 , COLOR 7, TRANS. 17.0,
 WAVE W 1, SWELL NW 1, WIND W 2, BARO 1005.3, AIP TLP. DRY 17.8, WFT , CLOUD, TYPE CC, ANT 2, WEATHER B ,

0	23.58	32.460	5.35							0	23.58	32.460	5.35	21.87	596	595	.0000
10	23.41	32.490	5.41							10	23.41	32.490	5.41	21.94	589	589	.0593
20	22.75	32.530	5.78							20	22.75	32.530	5.78	22.16	568	568	.1171
30	22.40	32.430	5.90							30	22.40	32.430	5.90	22.18	566	566	.1739
50	18.94	33.450	4.81							50	18.94	33.450	4.81	23.87	404	405	.2711
75	17.94	34.280	4.70							75	17.94	34.280	4.70	24.76	320	322	.3621
100	17.21	34.310	4.43							100	17.21	34.310	4.43	24.95	301	303	.4404
120	15.79	34.230	4.58														

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KOREA , TAE RAK SAN , STATION 400-11 , 33-50.3° N, 128-54.0° E, OCT. 8.1960, 13.30 VST, DEPTH 115 , COLOR 5, TRANS. 11.0,
 WAVE 3, SWELL 2, WIND SW 3, BARO 1012. , AIR TEMP. DRY 22.0, WFT , CLOUD, TYPE CC, ANT 4, WEATHER EC,

0	24.35	33.880	4.92							0	24.35	33.880	4.92	22.71	515	514	.0000
10	24.25	33.860	5.59							10	24.25	33.860	5.59	22.73	513	513	.0514
20	23.70	33.800	5.31							20	23.70	33.800	5.31	22.84	502	502	.1023
30	23.97	33.780	5.65							30	23.97	33.780	5.65	22.75	511	512	.1530
50	18.80	33.800	4.41							50	18.80	33.800	4.41	24.18	375	376	.2419
75	19.10	33.830	4.31							75	19.10	33.830	4.31	24.12	380	382	.3368
110	15.80	33.990	4.90							100	16.74	33.944	4.73	24.78	317	320	.4247

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, OCT. 8.1980, 15.20 VST, DEPTH 104 , COLOR 5, TRANSP. 11.0,																	
WAVE 3, SWELL 2, WIND W 3, BARO 1012. , AIR TEMP. DRY 22.2, WET . , CLOUD. TYPE AS, AMT 3, WEATHER FC,																	
0	22.75	33.480	4.71							0	22.75	33.480	4.71	22.88	4.99	4.99	.0000
10	23.00	33.600	5.10							10	23.00	33.600	5.10	22.89	4.97	4.97	.0499
20	23.40	33.710	5.01							20	23.40	33.710	5.01	22.86	5.00	5.01	.0998
30	23.23	33.750	5.02							30	23.23	33.750	5.02	22.94	4.93	4.93	.1496
50	19.20	33.710	4.31							50	19.20	33.710	4.31	24.01	3.91	3.92	.2382
75	16.50	33.990	4.09							75	16.50	33.990	4.09	24.88	3.08	3.10	.3262
100	16.47	33.780	4.83							100	16.47	33.780	4.83	24.72	3.23	3.25	.4057
KOREA ,TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, OCT. 8.1980, 11.10 KST, DEPTH 93 , COLOR 5, TRANSP. 11.0,																	
WAVE 3, SWELL 2, WIND SW 3, BARO 1013. , AIR TEMP. DRY 21.7, WET . , CLOUD. TYPE CC, AMT 4, WEATHER EC,																	
0	21.35	32.540	6.70							0	21.35	32.540	6.70	22.55	5.30	5.30	.0000
10	21.10	32.600	6.51							10	21.10	32.600	6.51	22.67	5.19	5.19	.0525
20	21.63	33.410	6.20							20	21.63	33.410	6.20	23.14	4.74	4.75	.1022
30	20.50	33.250	6.02							30	20.50	33.250	6.02	23.32	4.57	4.57	.1489
50	16.90	33.350	4.90							50	16.90	33.350	4.90	24.29	3.64	3.65	.2312
75	16.40	33.570	5.81							75	16.40	33.570	5.81	24.58	3.37	3.39	.3193
80	14.23	32.530	4.69														
KOREA ,TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, OCT. 8.1980, 09.50 KST, DEPTH 80 , COLOR 5, TRANSP. 11.0,																	
WAVE 3, SWELL 2, WIND SW 3, BARO 1013. , AIR TEMP. DRY 21.7, WET . , CLOUD. TYPE CC, AMT 5, WEATHER BC,																	
0	21.20	32.180	6.37							0	21.20	32.180	6.37	22.32	5.52	5.52	.0000

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	21.20	32.770	6.90							10	21.20	32.770	6.90	22.77	509	509	.0531
20	20.35	32.790	6.71							20	20.35	32.790	6.71	23.01	486	477	.1030
30	20.70	32.770	6.39							30	20.70	32.770	6.39	23.66	424	475	.1486
50	14.50	33.650	4.51							50	14.50	33.650	4.51	25.06	291	292	.2204
75	14.25	33.980	4.24							75	14.25	33.980	4.24	25.37	262	263	.2899

KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, OCT. 8,1980, 08.40 KST, DEPTH 60 , COLOR 4, TRANS. 12.0,
WAVE 3, SWELL 2, WIND SW 3, BARO 1012. , AIR TEMP. DRY 21.7, WET , CLOUD. TYPE CC, AMT 5, WEATHER CC,

0	20.53	33.130	6.40							0	20.53	33.130	6.40	23.22	466	466	.0000
10	20.50	33.090	6.21							10	20.50	33.090	6.21	23.20	468	468	.0468
20	20.40	33.050	7.91							20	20.40	33.050	7.91	23.19	469	469	.0937
30	19.54	33.170	6.00							30	19.54	33.170	6.00	23.51	439	439	.1392
55	13.86	33.890	6.11							50	15.00	33.746	6.09	25.03	294	295	.2127

KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, OCT. 8,1980, 05.40 KST, DEPTH 43 , COLOR , TRANS. ,
WAVE , SWELL , WIND , BARO 1010. , AIR TEMP. DRY 19.6, WET , CLOUD. TYPE , AMT , WEATHER ,

0	21.50	32.770	5.75							0	21.50	32.770	5.75	22.69	517	517	.0000
10	21.43	32.500	7.11							10	21.43	32.560	7.11	22.55	531	531	.0524
20	21.67	33.460	7.69							20	21.67	33.460	7.69	23.16	472	472	.1026
30	21.05	33.100	6.71							30	21.05	33.100	6.71	23.06	482	482	.1504
38	18.02	33.310	6.00														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	
KOREA , TAE BAKK SAN , STATION 400-17 , 34-27.0. N, 125-00.5. E, OCT. 8, 1980, 07.20 VST, DEPTH 36 , COLOR , TRANS. , , WAVE , SWELL , WIND , BARO 1010. , AIR TEMP. DRY 10.0, WET , , CLOUD. TYPE , AMT , WEATHER ,																		
0	21.19	33.140	8.41							0	21.19	33.140	8.41	23.05	482	482	.0000	
10	21.17	33.230	7.90							10	21.17	33.230	7.90	23.12	475	475	.0479	
20	21.20	33.170	7.11							20	21.20	33.170	7.11	23.07	480	481	.0958	
30	20.60	33.300	7.19							30	20.60	33.300	7.19	23.33	456	456	.1427	
KOREA , TAE BAKK SAN , STATION 400-22 , 33-44.3. N, 125-23.9. E, OCT. 8, 1980, 17.10 VST, DEPTH 100 , COLOR 4, TRANS. 11.0, WAVE 3, SWELL 1, WIND W 3, BARO 1012. , AIR TEMP. DRY 20.4, WET , , CLOUD. TYPE AS, AMT 4, WEATHER BC,																		
0	24.30	33.930	7.01							0	24.30	33.930	7.01	22.77	510	509	.0000	
10	24.29	33.960	6.18							10	24.29	33.960	6.18	22.79	507	507	.0509	
20	24.10	*****	6.56							20	24.10	*****	6.56	*****	***	***	*****	
30	21.58	33.730	6.28							30	21.58	33.730	6.28	23.39	450	450	*****	
50	20.04	33.720	5.41							50	20.04	33.720	5.41	23.80	411	412	*****	
75	17.89	33.890	5.20							75	17.89	33.890	5.20	24.47	347	349	*****	
05	16.81	34.140	5.21															
KOREA , TAE BAKK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, OCT. 17, 1980, 21.00 VST, DEPTH 90 , COLOR , TRANS. , , WAVE , SWELL , WIND , BARO 1016. , AIR TEMP. DRY 10.0, WET , , CLOUD. TYPE , AMT , WEATHER ,																		
0	21.94	33.520	6.10							0	21.94	33.520	6.10	23.13	475	474	.0000	
10	21.84	33.550	5.80							10	21.84	33.550	5.80	23.18	470	470	.0472	
20	21.08	33.540	5.81							20	21.08	33.540	5.81	23.38	451	451	.0933	
30	20.65	33.520	5.88							30	20.65	33.520	5.88	23.48	441	442	.1380	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	18.47	33.670	6.20							50	18.47	33.670	6.20	24.16	377	378	-2200
75	17.13	33.880	5.50							75	17.13	33.880	5.50	24.64	330	332	-3089
85	16.59	34.020	4.61														
KOREA , TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, OCT.17.1980, 19.00 KST, DEPTH 90 , COLOR , TRANS. ,																	
WAVE , SWELL , WIND , BARO 1015. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	21.46	33.340	6.60							0	21.46	33.340	6.60	23.13	475	475	-0000
10	21.02	33.460	5.97							10	21.02	33.460	5.97	23.34	455	455	-0465
20	21.58	33.470	5.70							20	21.58	33.470	5.70	23.19	469	469	-0928
30	18.93	33.410	5.59							30	18.93	33.410	5.59	23.85	406	407	-1366
50	16.99	33.550	5.40							50	16.99	33.550	5.40	24.43	351	352	-2127
75	15.99	33.720	4.27							75	15.99	33.720	4.27	24.79	317	319	-2967
85	15.69	33.980	3.30														
KOREA , TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, OCT.17.1980, 17.00 KST, DEPTH 100 , COLOR 4, TRANS. 9.0,																	
WAVE , SWELL , WIND NE 1, BARO 1016. , AIR TEMP. DRY 21.3, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	21.90	33.200	5.60							0	21.90	33.200	5.60	22.90	497	496	-0000
10	22.27	33.490	3.69							10	22.27	33.490	3.69	23.02	485	485	-0491
20	21.10	33.520	4.91							20	21.10	33.520	4.91	23.36	453	453	-0961
30	20.00	33.870	3.50							30	20.00	33.870	3.50	23.92	399	400	-1388
50	17.01	34.270	1.10							50	17.01	34.270	1.10	24.48	346	347	-2136
75	16.65	34.370	3.20							75	16.65	34.370	3.20	24.65	330	332	-2986
85	17.05	34.400	3.59														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE DAEG SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, OCT.17.1980, 15.00 KST, DPTH 130 , COLOR 2, TRANS. 10.0, WAVE , SWELL , WIND NE 1, BARO 1015. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT , WEATHER F.																	
0	21.90	37.000	5.10							0	21.90	33.000	5.10	22.75	511	511	.0000
10	21.20	32.910	5.12							10	21.20	32.910	5.12	22.87	499	499	.0506
20	20.79	33.250	4.60							20	20.79	33.250	4.60	23.24	464	464	.0988
30	19.25	33.700	4.71							30	19.25	33.700	4.71	23.09	393	394	.1418
50	17.60	37.820	4.18							50	17.60	33.820	4.18	24.49	345	347	.2159
75	16.40	34.170	3.93							75	16.40	34.170	3.93	25.04	293	295	.2962
100	15.13	34.290	3.45							100	15.13	34.290	3.45	25.42	257	259	.3656
125	15.28	34.490	3.31							125	15.28	34.490	3.31	25.54	245	249	.4292

12월(December)

KOREA ,TAE DAEG SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, DEC.15.1980, 15.30 KST, DPTH 110 , COLOR 6, TRANS. 6.0,																		
WAVE W 4, SWELL W 1, WIND SW 4, BARO 1024. , AIR TEMP. DRY 7.1, WET , CLOUD. TYPE AC, AMT 4, WEATHER EC.																		
0	15.40	33.590	5.51			0	15.40	33.590	5.51	24.82	314	313	.0000					
10	15.48	37.550	5.70			10	15.48	33.550	5.70	24.77	318	318	.0316					
20	15.52	37.600	5.72			20	15.52	33.680	5.72	24.86	310	310	.0631					
30	15.72	37.610	5.61			30	15.72	33.610	5.61	24.76	319	320	.0946					
50	15.65	37.610	5.55			50	15.65	33.610	5.55	24.78	318	319	.1586					
75	15.60	33.610	5.90			75	15.60	33.610	5.90	24.79	317	318	.2383					
100	15.64	37.670	6.20			100	15.64	33.670	6.20	24.83	313	315	.3177					
105	15.08	*****	*****															

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE PAK SAN , STATION 400-12 , 33-51.7, N, 128-39.0, E, DEC.15,1980, 17.10 VET, DEPTH 100 , COLOR 6, TRANS. 7.0, WAVE SW 4, SWELL W 1, WIND SW 4, BARO 1023. , AIP TEMP. DRY 4.0, WET , CLOUD. TYPE AC, AMT 4, WEATHER FC,																	
0	16.01	33.660	5.32							0	16.01	33.660	5.32	24.74	322	321	.0000
10	16.23	33.660	5.85							10	16.23	33.660	5.85	24.69	326	326	.0324
20	16.24	33.630	5.50							20	16.24	33.630	5.50	24.66	329	329	.0653
30	15.95	33.600	5.70							30	15.95	33.600	5.70	24.70	325	325	.0980
50	15.71	33.650	6.12							50	15.71	33.650	6.12	24.80	316	317	.1624
75	15.00	33.560	5.92							75	15.00	33.560	5.92	24.88	308	309	.2408
95	15.75	33.640	5.51														
KOREA ,TAE PAK SAN , STATION 400-13 , 34-04.6, N, 128-30.0, E, DEC.15,1980, 13.20 KST, DEPTH 90 , COLOR 6, TRANS. 6.0, WAVE W 4, SWELL W 1, WIND SW 4, BARO 1014. , AIP TEMP. DRY 7.0, WET , CLOUD. TYPE AC, AMT 4, WEATHER BC,																	
0	15.67	33.690	5.50							0	15.67	33.690	5.50	24.84	312	312	.0000
10	15.70	33.690	5.76							10	15.70	33.690	5.76	24.83	313	313	.0313
20	15.73	*****	5.61							20	15.73	*****	5.61	*****	***	***	*****
30	15.36	*****	5.90							30	15.36	*****	5.90	*****	***	***	*****
50	15.02	33.710	5.42							50	15.02	33.710	5.42	24.99	297	298	*****
75	15.56	34.230	4.50							75	15.56	34.230	4.50	25.27	270	272	*****
85	15.87	34.330	4.40														
KOREA ,TAE PAK SAN , STATION 400-14 , 34-13.5, N, 128-24.0, E, DEC.15,1980, 12.10 VET, DEPTH 80 , COLOR 6, TRANS. 6.0, WAVE W 4, SWELL W 1, WIND W 4, BARO 1024. , AIP TEMP. DRY 6.0, WET , CLOUD. TYPE AC, AMT 4, WEATHER BC,																	
0	15.47	34.050	5.22							0	15.47	34.050	5.22	25.16	282	281	.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10 15.68 34.060 5.01
 20 15.63 34.030 5.20
 30 15.69 34.040 5.31
 50 15.71 34.080 5.28
 75 15.88 34.150 4.50

10 15.68 34.060 5.01 25.12 285 285 .0284
 20 15.63 34.030 5.20 25.10 286 287 .0570
 30 15.69 34.040 5.31 25.10 287 288 .0858
 50 15.71 34.080 5.28 25.13 285 286 .1432
 75 15.88 34.150 4.50 25.14 283 285 .2147

KOREA ,TAE EAFK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, DEC.15.1980, 11.00 KST, DEPTH 65 , COLOR 7, TRANS. 5.0,
 WAVE W 4, SWELL W 1, WIND W 5, BARO 1025.2, AIR TEMP. DRY 4.8, WET , CLOUD. TYPE AC, AMT 4, WEATHER PC,

0 13.90 33.680 5.80
 10 13.94 33.700 5.60
 20 14.05 33.700 5.91
 30 14.04 33.720 5.52
 50 14.09 33.740 5.25
 60 14.09 33.740 5.36

0 13.90 33.680 5.80 25.21 277 276 .0000
 10 13.94 33.700 5.60 25.22 276 276 .0277
 20 14.05 33.700 5.91 25.19 278 278 .0554
 30 14.04 33.720 5.52 25.21 276 277 .0832
 50 14.09 33.740 5.25 25.22 276 277 .1387

KOREA ,TAE EAFK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, DEC.11.1980, 07.40 KST, DEPTH 45 , COLOR , TRANS. ,
 WAVE S 4, SWELL S 2, WIND SE 5, BARO 1014. , AIR TEMP. DRY 12.0, WET , CLOUD. TYPE AC, AMT 4, WEATHER PC,

0 17.00 33.400 7.50
 10 12.98 33.400 7.30
 20 17.00 33.440 7.02
 30 12.84 33.350 7.61

0 13.00 33.400 7.50 25.17 280 280 .0000
 10 12.98 33.400 7.30 25.16 279 279 .0280
 20 13.00 33.420 7.02 25.19 278 279 .0559
 30 12.84 33.350 7.61 25.17 281 281 .0840

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

KOREA ,TAE FAKK SAN , STATION 400-17 , 34-27.0. N, 129-00.5. E, DEC.11,1980, 08.50 VST, DEPTH 35 , COLOP 7, TRANS. 5.0,
 WAVE NE 4, SWELL NE 2, WIND NE 5, BARO 1013. , AIP TEMP. DPV 13.4, WET . , CLOUD. TYPE AC, AMT 2, WEATHER BC,
 0 12.70 33.290 5.61 0 12.70 33.290 5.61 25.15 282 282 .0000
 10 12.68 33.240 5.22 10 12.68 33.240 5.22 25.11 286 286 .0284
 20 12.73 33.230 5.42 20 12.73 33.230 5.42 25.10 287 287 .0571
 30 12.72 33.220 5.55 30 12.72 33.220 5.55 25.09 288 288 .0860

KOREA ,TAE FAKK SAN , STATION 400-22 , 33-44.7. N, 129-23.9. E, DEC.15,1980, 16.50 VST, DEPTH 110 , COLOP , TRANS. . ,
 WAVE W 5, SWELL W 1, WIND NW 5, BARO 1023. , AIP TEMP. DPV 5.8, WET . , CLOUD. TYPE , AMT , WEATHER BC,
 0 17.00. ***** 6.02 0 17.00 ***** 6.02 ***** *** *** .0000
 10 17.08 33.900 6.01 10 17.08 33.900 6.01 24.67 328 328 *****
 20 17.09 33.970 6.41 20 17.09 33.970 6.41 24.72 323 323 *****
 30 17.11 33.970 5.80 30 17.11 33.970 5.80 24.72 323 324 *****
 50 17.38 34.040 5.63 50 17.38 34.040 5.63 24.71 324 326 *****
 75 17.63 34.090 5.61 75 17.63 34.090 5.61 24.69 326 328 *****
 100 17.10 34.480 6.50 100 17.10 34.480 6.50 25.11 286 289 *****

KOREA ,TAE FAKK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, DEC.17,1980, 17.20 VST, DEPTH 105 , COLOR , TRANS. . ,
 WAVE NW 4, SWELL NW 1, WIND NW 5, BARO 1020. , AIP TEMP. DPV 8.6, WET . , CLOUD. TYPE AC, AMT 3, WEATHER BC,
 0 17.89 34.740 5.90 0 17.89 34.740 5.90 24.81 314 314 .0000
 10 17.85 34.740 5.90 10 17.85 34.740 5.90 24.82 313 313 .0314
 20 17.90 34.400 5.50 20 17.90 34.400 5.50 24.86 310 310 .0627

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30 17.93 34.790 6.18
 50 17.89 *****
 75 17.87 34.380 5.61
 100 17.83 34.360 5.45

30 17.93 34.390 6.18 24.84 312 312 .0978
 50 17.89 *****
 75 17.87 34.380 5.61 24.85 311 313 *****
 100 17.83 34.360 5.45 24.84 311 314 *****

KOREA TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-24.0. E, DEC.17.1980, 15.40 VST, DEPTH 105 , COLOR 2, TRANSP. 18.0,
 WAVE NW 4, SWELL NW 1, WIND NW 5, BARO 1019. , AIR TEMP. DRY 8.6, WET . , CLOUD. TYPE AC, AMT 3, WEATHER BC,

0 18.12 34.380 6.52
 10 18.03 34.390 6.21
 20 18.17 34.430 6.01
 30 18.15 ***** 5.62
 50 18.09 34.520 5.80
 75 18.04 34.390 5.61
 100 18.01 34.380 5.60

0 18.12 34.380 6.52 24.79 317 316 .0000
 10 18.03 34.390 6.21 24.82 314 314 .0316
 20 18.17 34.430 6.01 24.81 314 315 .0630
 30 18.15 ***** 5.62 *****
 50 18.09 34.520 5.80 24.90 306 *****
 75 18.04 34.390 5.61 24.81 314 *****
 100 18.01 34.380 5.60 24.81 314 317 *****

KOREA TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, DEC.17.1980, 14.00 VST, DEPTH 110 , COLOR 2, TRANSP. 15.0,
 WAVE NW 4, SWELL NW 2, WIND N 5, BARO 1023. , AIR TEMP. DRY 7.8, WET . , CLOUD. TYPE AC, AMT 7, WEATHER EC,

0 18.36 34.760 5.68
 10 18.38 34.760 5.62
 20 18.41 34.370 5.60
 30 18.40 34.740 5.81
 50 18.38 34.760 6.53
 75 18.35 34.360 5.60
 100 18.26 34.760 5.36

0 18.36 34.360 5.68 24.71 324 324 .0000
 10 18.38 34.360 5.62 24.71 324 324 .0324
 20 18.41 34.370 6.60 24.71 324 325 .0649
 30 18.40 34.340 5.81 24.69 326 327 .0976
 50 18.38 34.360 6.53 24.71 324 326 .1629
 75 18.35 34.360 5.60 24.72 324 326 .2444
 100 18.26 34.360 5.36 24.71 324 327 .3261

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAK SAN , STATION 400-27 , 33-30.7. N, 127-04.5. E, DEC.17.1980, 12.20 VST, DEPTH 115 , COLOP 3, TEANS. 13.0, WAVE HW 4, SWELL HW 2, WIND N 5, BARO 1023. , AIP TEMP. DRV 7.4, WFT . , CLOUD. TYPE AC, AMT 8, WEATHER C ,																	
0	18.03	34.400	5.50							0	18.03	34.400	5.50	24.82	313	313	.0000
10	18.20	34.380	5.32							10	18.20	34.380	5.32	24.77	319	319	.0316
20	18.27	34.380	5.31							20	18.27	34.380	5.31	24.75	320	321	.0636
30	18.30	*****	5.71							30	18.30	*****	5.71	*****	***	***	*****
50	18.32	34.390	5.34							50	18.32	34.390	5.34	24.75	321	322	*****
75	18.30	34.420	5.52							75	18.30	34.420	5.52	24.77	318	320	*****
100	18.28	34.440	5.27							100	18.28	34.440	5.27	24.79	316	319	*****

제 4 편

부 유 생 물 조 사 성 적

PART 4

PLANKTON DATA

1980

부유생물의 채집 및 조사방법

부유생물의 채집은 본원 및 각 지원에서 한국 근해의 정선 해양관측과 기타 해양조사시 일반 해양관측과 동시에 채집하였으며, 그 조사방법은 다음과 같다.

1. 채집 및 방법

채집망은 Norpac Net 를 사용하여 정량 조사하였으며 채집 수층은 수심이 깊은 동해측은 100 m, 수심이 얇은 서해측과 남해측은 저층에서 표면까지 약 1 m/sec. 의 속도로써 수직 채집하여 약 5%의 중성 Formalin 으로 고정하였다.

2. 채집된 시료의 처리 방법

상기와 같이 채집된 시료에 대하여 대형인 강장류, 갑각류 및 피낭류 등을 제거하고 용적 측정법에 의한 침전량과 중량측정법에 따른 습중량을 측정하여 그 양을 표시하였다.

Copepoda, Chaetognatha, Amphipoda, Euphausiacea 등을 계수 표시하였다.

PLANKTON COLLECTION AND PROCEDURES

Plankton samples were collected at the oceanographic stations of the sectional lines made in the adjacent water of Korea, and special oceanographic observation.

The methods applied for collecting and treating the samples and gears are as follows ;

1. Method of plankton collection

Plankton samples were collected by the vertical haul with the Norpac Net. General depth of haul is from 100 *m* in the Eastern Sea, and bottom in the Western Sea and Southern Sea to the Surface, and the speed of hauling is approximately one meter per second. The samples obtained from the net were immediately preserved in about five percent neutral formalin in the preserving bottles of plankton and taken to the laboratory for examinations.

2. Laboratory procedures

For quantitative examination of plankton, the settling volume and the wet weight measurements were in removing macroplanktons, such as Hybromedusae, Soyphomedusae and Doliolum. Copepoda, Chaetognatha, Amphipoda, Euphausiacea were counted.

동 해 부 유 생 물 조 사 성 적

PLANKTON DATA : EASTERN WATERS

1980

106 선 부유생물 조사표
Plankton Data, Line 106

Month	Feb.					Apr.			
Station	03	05	07	09	11	03	05	07	
Date	14	23	23	23	24	18	18	18	
Time	12:00	10:20	16:20	22:20	04:20	11:00	06:10	00:00	
Col. depth (m)	100	100	100	100	100	100	100	100	
Volume (cc)	0.5	1.7	2.1	2.8	10.2	2.0	2.5	2.5	
Biomass (mg/m ³)	4.40	44.02	54.72	44.02	559.72	22.01	25.16	18.87	
Copepoda	20	350	360	20	30	800	350	1600	
Chaetognatha	0	0	0	5	0	3	1	0	
Amphipoda	0	0	14	0	0	5	6	5	
Euphausia	0	0	0	0	0	7	20	1	

Month	Jun.					Aug.				
Station	03	05	07	09	11	03	05	07	09	
Date	13	13	13	14	14	15	15	15	16	
Time	11:40	16:30	23:00	05:10	11:40	09:00	13:40	19:40	01:40	
Col. depth (m)	100	100	100	100	100	100	100	100	100	
Volume (cc)	3.0	2.5	20.0	20.0	6.5	4.5	0.5	1.5	5.0	
Biomass (mg/m ³)	25.16	18.87	132.08	125.79	62.89	72.33	3.14	12.58	69.18	
Copepoda	350	700	150	900	1000	800	120	70	400	
Chaetognatha	2	20	1	2	2	38	10	29	70	
Amphipoda	25	40	20	150	50	20	5	40	70	
Euphausia	50	30	7	30	500	100	7	2	5	

Month	Oct.					Dec.				
Station	03	05	07	09	11	03	05	07	09	11
Date	18	24	29	30	30	22	22	22	22	21
Time	15:50	17:40	21:50	02:50	08:00	17:00	12:40	07:00	00:20	17:40
Col. depth (m)	100	100	100	100	100	100	100	100	100	100
Volume (cc)	1.5	8.0	4.5	11.0	2.5	2.0	5.0	2.0	4.0	4.0
Biomass (mg/m ³)	12.58	56.60	25.16	88.05	18.87	37.74	81.76	18.87	25.16	18.87
Copepoda	1800	2000	1200	2500	1200	75	155	42	125	93
Chaetognatha	20	150	100	1000	400	25	40	10	20	40
Amphipoda	30	60	40	40	70	11	40	3	20	3
Euphausia	1	5	4	1	10	0	1	1	2	0

105 선 부유생물 조사표
Plankton Data, Line 105

Month	Feb.					Apr.				
Station	03	05	07	09	11	03	05	07	09	11
Date	23	23	22	22	18	16	17	17	11	10
Time	04:00	00:40	18:50	12:50	17:20	09:10	10:10	16:20	02:30	20:20
Col. depth (m)	48	100	100	100	100	48	100	100	100	100
Volume (cc)	4.5	0.5	5.5	2.2	7.0	20.0	1.0	2.0	2.5	1.5
Biomass (mg/m ³)	393.18	4.40	254.72	130.19	358.49	707.73	18.87	18.86	22.03	12.58
Copepoda	200	30	300	30	20	650	550	700	200	500
Chaetognatha	4	0	0	0	0	0	0	3	0	0
Amphipoda	10	7	35	3	3	10	9	8	9	4
Euphausia	7	0	5	2	5	150	10	6	20	0

Month	Jun.					Aug.				
Station	03	05	07	09	11	03	05	07	09	11
Date	12	12	11	11	11	13	13	12	12	12
Time	08:30	05:00	22:50	16:30	09:50	06:00	01:05	18:50	11:35	06:10
Col. depth (m)	48	100	100	100	100	48	100	100	100	100
Volume (cc)	13.5	4.0	8.5	5.5	7.0	3.0	4.0	4.5	6.5	3.5
Biomass (mg/m ³)	275.23	25.16	100.63	44.03	81.76	32.77	50.31	66.04	75.47	53.46
Copepoda	400	700	200	70	4000	600	1000	800	800	700
Chaetognatha	10	2	3	5	8	17	7	40	80	60
Amphipoda	25	35	60	20	172	5	15	50	90	150
Euphausia	550	60	40	10	120	50	23	6	5	20

Month	Oct.					Dec.				
Station	03	05	07	09	11	03	05	07	09	11
Date	29	29	17	17	17	18	18	17	17	17
Time	12:25	15:10	19:15	13:25	06:25	07:50	04:30	22:40	15:40	09:20
Col. depth (m)	48	100	100	100	100	48	100	100	100	100
Volume (cc)	0.4	3.0	5.0	4.5	4.0	1.5	6.0	0.5	4.0	5.0
Biomass (mg/m ³)	6.55	31.45	50.31	37.34	31.45	26.21	119.50	5.03	37.74	50.31
Copepoda	10	2500	2000	2500	1400	1000	620	21	500	345
Chaetognatha	5	20	450	200	50	16	80	11	25	19
Amphipoda	5	10	160	100	30	20	31	5	10	70
Euphausia	1	1	1	1	1	3	4	0	0	8

104 선 부유생물 조사표
Plankton Data, Line 104

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	17	18	18	18	8	9	9	10
Time	19:50	00:10	06:10	12:10	18:50	00:00	06:10	15:10
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	2.5	3.7	2.0	6.2	1.5	2.0	0.5	2.0
Biomass (mg/m ³)	23.27	179.25	67.29	254.72	22.01	40.88	12.58	25.16
Copepoda	130	30	30	50	400	320	850	2000
Chaetognatha	0	4	2	2	2	3	1	0
Amphipoda	1	4	4	2	1	3	0	2
Euphausia	8	1	3	3	0	3	0	0

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	10	10	10	11	11	11	11	12
Time	10:10	15:30	22:10	04:30	10:30	15:05	19:40	02:00
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	0.5	2.0	45.0	9.5	0.5	5.0	8.0	6.0
Biomass (mg/m ³)	6.29	12.58	308.18	119.50	3.46	37.74	62.89	116.35
Copepoda	50	450	1000	1200	30	850	500	140
Chaetognatha	0	20	20	15	2	70	60	60
Amphipoda	1	20	250	50	2	50	100	150
Euphausia	0	0	50	20	0	20	7	20

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	16	16	16	17	16	16	16	17
Time	09:30	13:40	19:45	01:30	10:00	14:00	19:20	04:10
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	4.0	5.0	10.0	1.0	0.7	1.2	1.1	1.0
Biomass (mg/m ³)	37.34	31.45	100.63	12.58	6.29	7.55	9.43	6.29
Copepoda	360	1800	3000	40	40	60	120	150
Chaetognatha	20	100	250	5	20	25	9	8
Amphipoda	15	50	90	10	1	0	3	5
Euphausia	0	0	6	0	0	0	1	1

103 선 부유생물 조사표
Plankton Data, Line 103

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	10	10	10	10	22	22	22	22
Time	10:30	13:30	18:10	22:50	13:55	10:40	06:30	02:10
Col. depth (m)	100	100	100		100	100	100	100
Volume (cc)	1.5	1.5	5.0		1.1	1.7	2.8	20.0
Biomass (mg/m ³)	61.01	31.45	232.70		13.84	11.95	56.60	396.63
Copepoda	272	630	690		105	704	624	416
Chaetognatha	42	33	6		0	0	0	0
Amphipoda	1	3	3		0	3	3	9
Euphausia	0	0	31		7	15	35	32

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	9	9	10	10	12	12	12	12
Time	18:00	21:05	01:10	05:15	11:00	14:05	18:10	22:20
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	4.5	3.5	2.2	1.8	1.5	1.0	3.5	1.9
Biomass (mg/m ³)	35.85	62.89	128.93	106.92	12.58	6.29	27.04	12.58
Copepoda	650	630	378	208	21	72	360	27
Chaetognatha	52	4	8	3	6	9	19	5
Amphipoda	27	50	15	15	2	13	23	6
Euphausia	1	0	15	20	3	0	0	0

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	9	9	9	10	18	18	18	18
Time	12:10	15:10	19:10	10:36	12:25	09:20	05:15	01:10
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	7.0	3.0	7.0	3.0	2.5	1.5	1.7	2.8
Biomass (mg/m ³)	41.51	31.45	62.90	15.72	44.65	21.38	26.42	47.17
Copepoda	280	128	720	282	1350	192	468	935
Chaetognatha	11	5	64	3	23	3	11	29
Amphipoda	24	18	23	0	16	2	2	30
Euphausia	12	10	6	3	6	1	1	3

102 선 부유생물 조사표
Plankton Data, Line 102

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	11	11	11	11	21	21	21	21
Time	14:50	11:40	07:00	02:20	12:00	14:30	18:40	22:55
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	1.7	2.0	1.0	2.8	11.0	2.0	1.8	28.5
Biomass (mg/m ³)	30.19	75.47	47.17	62.89	198.11	18.87	26.42	449.69
Copepoda	520	145	33	220	388	134	300	168
Chaetognatha	53	0	17	4	0	0	0	0
Amphipoda	0	0	2	0	0	0	0	9
Euphausia	0	0	26	9	43	8	3	105

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	10	10	10	10	13	13	13	13
Time	19:10	16:35	12:30	08:20	12:25	09:45	05:35	01:25
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	0.5	0.5	1.9	1.6	7.0	0.5	2.0	3.2
Biomass (mg/m ³)	15.09	16.35	25.16	22.01	37.74	8.81	14.47	31.45
Copepoda	345	726	1421	1044	400	22	364	344
Chaetognatha	11	8	53	51	65	13	53	38
Amphipoda	15	30	27	15	2	4	55	16
Euphausia	2	3	4	1	15	0	0	2

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	10	10	10	10	17	17	17	17
Time	13:35	10:36	06:25	02:20	11:30	14:00	18:05	22:10
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	4.0	3.0	2.3	2.5	0.3	0.2	0.2	0.5
Biomass (mg/m ³)	95.60	15.72	2.52	5.66	11.32	11.95	11.95	13.21
Copepoda	377	282	531	696	152	301	324	336
Chaetognatha	21	3	55	89	0	3	3	7
Amphipoda	0	0	14	54	2	0	0	2
Euphausia	3	3	3	1	0	0	0	0

209 선 부유생물 조사표
Plankton Data, Line 209

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	12	12	12	12	18	18	18	18
Time	05:30	08:50	13:10	17:30	19:20	16:15	12:15	08:10
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	10.0	3.0	6.5	1.0	1.0	0.8	1.0	0.3
Biomass (mg/m ³)	123.27	62.89	78.62	40.25	12.58	6.29	11.95	5.66
Copepoda	880	79	121	42	83	680	456	172
Chaetognatha	11	27	39	27	17	0	21	11
Amphipoda	6	0	1	5	0	0	0	0
Euphausia	75	21	25	0	2	0	5	4

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	11	11	11	11	14	14	14	15
Time	07:20	10:20	14:20	18:20	13:20	16:30	20:30	00:30
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	0.9	0.2	0.1	0.1	3.2	5.0	5.2	0.8
Biomass (mg/m ³)	15.72	15.72	18.87	15.72	75.16	34.59	46.54	15.72
Copepoda	390	273	245	175	441	486	702	0
Chaetognatha	5	2	3	4	61	27	65	0
Amphipoda	2	0	0	3	6	5	1	0
Euphausia	1	0	1	0	5	13	2	0

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	16	16	16	16	11	11	11	11
Time	10:15	13:15	17:15	21:15	12:20	09:20	06:20	01:20
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (cc)	0.7	5.2	3.0	4.8	1.6	0.8	0.8	1.2
Biomass (mg/m ³)	42.77	47.17	3.15	120.13	15.72	12.58	20.75	44.65
Copepoda	1200	450	213	1650	330	266	225	180
Chaetognatha	29	45	6	6	0	0	0	6
Amphipoda	5	5	6	25	0	0	1	3
Euphausia	2	0	1	3	0	0	1	1

208선 부유생물 조사표
Plankton Data, Line 208

Month	Feb.						Apr.			
Station	01	03	05	07	09	01	03	05	07	09
Date	13	13	13	13	12	17	17	17	18	18
Time	11:00	08:00	04:40	01:20	22:00	15:50	18:30	21:30	00:40	03:45
Col. depth (m)	70	100	100	100	100	70	100	100	100	100
Volume (cc)	1.5	0.5	1.2	1.2	0.9	6.0	2.8	20.0	0.5	0.8
Biomass (mg/m ³)	134.77	16.98	29.56	26.42	23.90	242.59	78.62	270.44	9.43	11.95
Copepoda	274	197	242	475	378	105	78	830	20	690
Chaetognatha	23	33	35	22	19	1	1	2	1	11
Amphipoda	0	1	1	1	0	0	0	1	0	1
Euphausia	53	23	50	30	0	0	5	37	0	3

Month	Jun.						Aug.			
Station	01	03	05	07	09	01	03	05	07	09
Date	12	12	12	12	11			15	15	15
Time	10:10	07:30	04:30	01:35	22:35			11:00	08:00	05:00
Col. depth (m)	70	100	100	100	100			100	100	100
Volume (cc)			0.5	0.7	0.5			0.2	0.3	0.9
Biomass (mg/m ³)			16.35	13.84	15.72			8.18	6.29	8.18
Copepoda			300	351	232			11	22	87
Chaetognatha			14	12	6			4	8	8
Amphipoda			3	7	3			0	2	0
Euphausia			7	7	2			0	0	0

Month	Oct.						Dec.			
Station	01	03	05	07	09	01	03	05	07	09
Date	17	17	17	17	17	10	10	10	10	10
Time	13:10	10:00	07:30		01:40	09:20	11:55	14:55	17:55	20:50
Col. depth (m)	70	100	100		100	70	100	100	100	100
Volume (cc)	6.2	9.2	6.8		2.0	1.5	0.9	1.0	0.9	0.5
Biomass (mg/m ³)	107.82	66.04	76.73		28.30	21.56	16.35	20.13	14.47	6.92
Copepoda	868	924	1256		490	604	1000	1694	288	141
Chaetognatha	55	160	384		19	7	5	3	0	0
Amphipoda	21	11	25		22	1	4	1	4	0
Euphausia	12	25	12		0	0	0	0	1	0

남해부유생물조사성적

PLANKTON DATA : SOUTHERN WATERS

1980

207 선 부유생물 조사표
Plankton Data, Line 207

Month	Feb.			Apr.		
Station	01	03	05	01	03	05
Date	14	14	14	7	7	7
Time	17:30	16:10	14:40	14:40	16:40	18:30
Col. depth (m)	85	115	160	82	101	158
Volume (cc)	0.9	1.6	0.6	1.1	5.0	11.5
Biomass (mg/m ³)	17.8	23.5	7.1	24.4	82.2	93.6
Copepoda	900	1500	900	450	3500	4500
Chaetognatha	2	0	4	0	20	50
Amphipoda	3	0	0	0	4	20
Euphausia	0	0	0	8	10	150

Month	Jun.			Aug.		
Station	01	03	05	01	03	05
Date	15	15	15	16	16	16
Time	09:00	07:10	05:10	08:30	06:50	05:00
Col. depth (m)	84	120	160	83	115	150
Volume (cc)	0.6	3.2	2.0	12.2	3.2	12.8
Biomass (mg/m ³)	11.2	22.5	18.9	140.3	30.1	107.0
Copepoda	140	280	120	350	100	300
Chaetognatha	7	6	8	40	10	30
Amphipoda	18	3	1	60	25	30
Euphausia	0	0	0	5	5	0

Month	Oct.			Dec.		
Station	01	03	05	01	03	05
Date	7	7	7	10	10	10
Time	12:40	15:10	16:50	17:00	18:20	19:50
Col. depth (m)	80	110	100	84	115	160
Volume (cc)	12.5	11.0	5.7	0.3	5.0	3.5
Biomass (mg/m ³)	265.7	86.9	53.5	0.8	46.0	26.4
Copepoda	2000	1500	1600	100	1200	1200
Chaetognatha	80	70	50	0	120	180
Amphipoda	60	20	25	0	12	8
Euphausia	0	0	0	0	2	5

206 선 부유생물 조사표
Plankton Data, Line 206

Month	Feb.			Apr.		
Station	01	03	05	01	03	05
Date	14	14	14	8	8	7
Time	06:05	08:00	10:20	03:55	01:45	23:50
Col. depth (m)	60	90	130	60	92	128
Volume (cc)	0.5	0.4	1.1	12.5	9.5	1.2
Biomass (mg/m ³)	8.4	4.2	11.8	385.7	182.6	3.7
Copepoda	280	360	1620	3500	4000	600
Chaetognatha	1	0	5	30	30	10
Amphipoda	1	0	0	0	3	0
Euphausia	0	0	0	100	100	10

Month	Jun.			Aug.		
Station	01	03	05	01	03	05
Date	14	14	15	15	15	16
Time	19:50	22:20	01:00	18:10	21:30	00:10
Col. depth (m)	65	94	136	62	94	125
Volume (cc)	6.2	15.1	1.2	9.8	9.5	34.0
Biomass (mg/m ³)	121.0	241.6	12.5	196.8	129.2	368.9
Copepoda	1350	1480	55	800	800	1600
Chaetognatha	95	250	3	30	50	150
Amphipoda	132	85	0	35	40	100
Euphausia	45	430	1	30	30	30

Month	Oct.			Dec.		
Station	01	03	05	01	03	05
Date	8	8	7	11	11	11
Time	03:10	00:30	21:30	04:20	02:30	00:10
Col. depth (m)	60	94	130	62	95	130
Volume (cc)	7.0	7.5	4.2	1.2	2.4	0.5
Biomass (mg/m ³)	141.5	83.7	33.9	21.3	23.2	1.5
Copepoda	1800	1800	1020	600	900	80
Chaetognatha	30	30	10	40	90	15
Amphipoda	18	30	20	2	3	0
Euphausia	35	6	10	3	4	0

205 선 부유생물 조사표
Plankton Data, Line 205

Month	Feb.			Apr.		
Station	01	03	05	01	03	05
Date	13	13	13	12	11	11
Time	08:50	10:10	14:10	00:10	21:40	18:10
Col. depth (m)	55	85	115	52	84	114
Volume (cc)	1.5	3.0	1.1	1.2	3.5	5.3
Biomass (mg/m ³)	56.1	83.6	15.3	54.4	63.1	57.4
Copepoda	1200	2000	1500	650	1550	1800
Chaetognata	10	190	5	5	40	30
Amphipode	0	1	1	0	3	3
Euphausia	3	12	1	10	20	5

Month	Jun.			Aug.		
Station	01	03	05	01	03	05
Date	11	11	11	14	14	15
Time	11:30	14:00	17:40	21:00	23:20	02:50
Col. depth (m)	55	86	115	50	80	115
Volume (cc)	1.1	0.5	2.3	4.0	2.0	7.7
Biomass (mg/m ³)	20.6	8.8	29.0	106.9	34.6	57.4
Copepoda	80	90	130	200	300	300
Chaetognata	5	5	6	25	0	15
Amphipoda	0	3	5	1	0	20
Euphausia	0	0	3	10	0	0

Month	Oct.			Dec.		
Station	01	03	05	01	03	05
Date	9	8	8	16	15	15
Time	01:30	22:50	19:10	01:50	23:50	20:30
Col. depth (m)	50	80	110	54	86	120
Volume (cc)	6.5	11.7	9.7	5.3	5.7	3.5
Biomass (mg/m ³)	130.8	197.3	125.2	72.3	72.4	27.8
Copepoda	1200	2000	1500	900	1500	1300
Chaetognata	50	110	50	200	500	100
Amphipoda	10	30	25	7	20	15
Euphausia	5	60	30	5	10	15

204 선 부유생물 조사표
Plankton Data, Line 204

Month	Feb.			Apr.		
Station	02	04	06	02	04	06
Date	13	12	12	12	14	14
Time	07:10	02:20	00:00	02:00	17:40	20:20
Col. depth (m)	25	75	125	26	73	126
Volume (cc)	2.5	0.2	0.4	3.3	3.2	3.1
Biomass (mg/m ³)	55.4	11.7	3.0	116.2	37.1	28.0
Copepoda	720	40	450	1200	1000	1200
Chaetognatha	20	12	30	10	10	0
Amphipoda	0	0	0	0	0	0
Euphausia	1	0	0	0	0	5

Month	Jun.			Aug.		
Station	02	04	06	02	04	06
Date	11	11	11	14	12	11
Time	09:40	06:10	03:20	18:40	16:40	10:10
Col. depth (m)	30	75	100	28	70	123
Volume (cc)	0.4	1.3	0.3	3.2	6.5	6.0
Biomass (mg/m ³)	21.0	40.3	5.7	134.8	123.1	62.9
Copepoda	35	90	25	150	700	300
Chaetognatha	5	5	0	5	200	20
Amphipoda	2	10	0	10	10	50
Euphausia	0	5	4	0	0	0

Month	Oct.			Dec.		
Station	02	04	06	02	04	06
Date	9	9	9	16	17	17
Time	03:30	06:45	10:00	03:40	09:10	11:30
Col. depth (m)	28	75	130	35	80	128
Volume (cc)	7.8	6.8	3.5	12.5	4.0	6.2
Biomass (mg/m ³)	276.4	107.9	41.1	397.5	70.8	94.4
Copepoda	1200	1000	1200	2400	1800	2400
Chaetognatha	300	100	20	600	200	300
Amphipoda	150	15	10	2	7	120
Euphausia	5	2	3	10	1	0

203 선 부유생물 조사표
Plankton Data, Line 203

Month	Feb.		Apr.	
Station	01	03	01	03
Date	3	3	18	18
Time	06:00	08:30	10:30	07:50
Col. depth (m)	57	135	55	133
Volume (cc)	0.3	0.3	2.4	3.6
Biomass (mg/m ³)	5.5	1.4	58.4	44.5
Copepoda	180	90	1050	1850
Chaetognatha	10	5	50	0
Amphipoda	0	0	0	0
Euphausia	0	1	10	0

Month	Jun.		Aug.	
Station	01	03	01	03
Date	8	8	9	9
Time	05:40	08:30	10:40	13:20
Col. depth (m)	50	135	50	25
Volume (cc)	0.2	0.1	3.9	5.9
Biomass (mg/m ³)	13.8	1.4	95.6	196.5
Copepoda	20	20	200	240
Chaetognatha	0	0	170	15
Amphipoda	0	0	0	20
Euphausia	0	0	1	9

Month	Oct.		Dec.	
Station	01	03	01	03
Date	15	15	19	19
Time	07:20	10:40	07:40	04:40
Col. depth (m)	50	120	53	138
Volume (cc)	4.5	0.8	10.5	3.5
Biomass (mg/m ³)	90.6	12.1	244.5	19.6
Copepoda	1200	1000	1800	350
Chaetognatha	0	180	600	40
Amphipoda	5	15	30	10
Euphausia	0	0	10	2

313선 부유생물 조사표
Plankton Data, Line 313

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	9	9	10	10	16	16	16	16
Time	21:00	23:20	01:40	04:00	14:50	12:10	09:40	06:50
Col. depth (m)	90	80	70	70	90	82	70	68
Volume (cc)	0.2	0.2	0.7	0.5	7.5	2.5	3.4	7.8
Biomass (mg/m ³)	0.7	0.8	15.3	8.1	113.2	34.5	97.0	215.2
Copepoda	30	450	1440	1250	1750	1000	1680	3800
Chaetognatha	0	0	3	3	25	0	30	300
Amphipoda	0	0	0	0	5	0	0	2
Euphausia	0	0	0	0	20	0	0	20

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	9	9	9	9	9	9	9	10
Time	10:50	13:20	15:50	18:20	16:30	20:00	22:30	01:00
Col. depth (m)	90	75	70	70	90	75	65	70
Volume (cc)	0.9	0.6	1.8	5.2	5.1	6.0	6.0	7.0
Biomass (mg/m ³)	28.0	19.3	26.1	122.2	59.4	111.6	103.6	147.3
Copepoda	200	180	250	1400	400	800	700	800
Chaetognatha	0	0	0	25	100	50	70	50
Amphipoda	15	7	10	59	100	50	10	10
Euphausia	0	0	0	2	0	25	30	50

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	15	16	16	16	19	18	18	18
Time	22:45	01:30	04:22	07:10	01:10	22:50	20:30	18:10
Col. depth (m)	90	80	70	60	92	84	72	70
Volume (cc)	4.7	2.7	2.6	1.2	2.0	7.0	2.0	2.7
Biomass (mg/m ³)	63.6	55.1	49.4	31.4	24.6	113.1	18.3	50.3
Copepoda	1500	1500	750	1000	300	2000	300	1200
Chaetognatha	40	40	40	20	20	300	40	150
Amphipoda	0	1	10	10	5	8	5	10
Euphausia	26	0	5	0	0	13	3	6

314 선 부유생물 조사표
Plankton Data, Line 314

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	11	11	10	10	10	15	15	15	15	15
Time	10:30	09:00	16:40	13:30	10:00	08:40	12:40	16:20	19:50	23:40
Col. depth (m)	140	110	100	90	80	138	108	98	88	78
Volume (cc)	1.6	2.4	0.6	0.2	0.4	3.7	6.2	2.3	22.2	8.7
Biomass (mg/m ³)	18.4	36.6	9.4	4.9	9.4	23.7	67.6	28.9	376.7	135.5
Copepoda	1620	1800	360	30	1080	650	1050	450	2500	1850
Chaetognata	20	20	8	6	3	10	5	4	20	0
Amphipoda	0	10	3	1	0	3	5	7	70	10
Euphausia	2	20	8	0	0	20	30	0	650	150

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	10	10	10	10	10	10	10	10	10	10
Time	15:50	12:30	08:00	05:10	01:50	22:10	18:40	19:10	11:49	08:00
Col. depth (m)	130	100	100	90	80	140	100	100	90	75
Volume (cc)	0.8	1.9	0.4	3.9	10.1	9.2	5.0	9.0	4.0	9.0
Biomass (mg/m ³)	12.6	28.9	1.3	49.6	169.8	77.3	64.8	119.5	79.7	161.9
Copepoda	55	320	10	350	1250	500	250	500	300	900
Chaetognata	3	10	0	15	5	50	30	40	15	50
Amphipoda	4	13	0	80	175	20	30	60	100	15
Euphausia	0	0	0	40	180	3	0	3	0	30

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	17	17	16	16	16	17	18	18	18	18
Time	06:40	03:00	23:00	19:10	15:20	22:10	01:30	04:50	08:10	11:30
Col. depth (m)	130	110	100	90	80	140	105	100	90	100
Volume (cc)	8.0	12.5	6.5	7.0	4.5	5.1	10.0	7.3	6.7	2.8
Biomass (mg/m ³)	65.8	215.6	98.1	94.3	31.4	57.5	115.7	86.2	79.7	25.2
Copepoda	1800	2000	2000	2500	2000	1700	2500	1800	1200	700
Chaetognata	100	250	50	120	80	150	300	300	180	120
Amphipoda	30	25	15	10	20	20	35	10	15	10
Euphausia	0	5	30	30	0	22	15	20	5	2

서 해 부 유 생 물 조 사 성 적

PLANKTON DATA : WESTERN WATERS

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307 선 부유생물 조사표
Plankton Data, Line 307

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	12	14	14	14	10	10	10	11
Time	08:00	13:00	16:30	20:08	13:50	18:05	21:30	01:05
Col. depth (m)	30	50	50	65	30	50	50	60
Volume (cc)	1.0	3.5	2.0	3.0	2.5	2.0	3.5	3.5
Biomass (mg/m ³)	23.57	59.61	25.62	40.68	65.28	27.79	49.74	30.04
Copepoda	390	419	871	354	120	241	250	250
Chaetognatha	43	106	71	138	62	77	32	27
Amphipoda	0	0	0	0	0	1	6	3
Euphausia	0	22	3	5	0	0	2	1

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	9	9	10	10	6	6	7	7
Time	19:05	23:25	02:55	06:30	18:20	22:40	02:10	05:45
Col. depth (m)	30	40	50	60	30	50	50	60
Volume (cc)	1.2	0.2	0.3	30.5	2.8	1.8	3.0	7.0
Biomass (mg/m ³)	136.61	16.32	47.33	460.50	81.10	20.59	43.05	127.92
Copepoda	577	228	134	11000	8	206	152	1748
Chaetognatha	89	1	0	144	142	268	404	724
Amphipoda	0	0	0	3	0	0	0	16
Euphausia	11	1	0	450	30	22	1	30

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	7	7	7	8	16	16	16	16
Time	15:35	20:00	23:25	02:55	03:35	07:25	10:55	14:30
Col. depth (m)	30	50	50	60	30	50	50	60
Volume (cc)	1.5	2.0	2.0	1.5	2.0	9.0	2.5	0.5
Biomass (mg/m ³)	7.36	18.19	38.13	13.31	32.35	91.61	54.55	1.76
Copepoda	20	74	131	36	74	64	182	15
Chaetognatha	50	123	152	107	153	514	268	21
Amphipoda	0	0	0	0	0	6	6	1
Euphausia	4	6	12	3	0	34	4	6

308 선 부유생물 조사표
Plankton Data, Line 308

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	15	15	15	15	15	11	11	11	11	11
Time	18:50	15:25	12:00	08:30	04:55	23:55	20:30	17:00	13:25	09:50
Col. depth (m)	20	45	50	65	80	15	40	40	60	70
Volume (cc)	0.3	0.3	1.0	3.0	1.0	5.0	9.0	1.5	5.0	7.5
Biomass (mg/m ³)	6.16	2.62	6.04	37.99	5.39	92.52	63.83	30.06	267.12	247.91
Copepoda	246	30	446	476	508	540	350	315	906	283
Chaetognatha	5	5	39	118	56	36	43	7	36	107
Amphipoda	0	0	0	0	0	0	3	0	1	0
Euphausia	0	2	0	14	1	11	64	3	24	101

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	11	11	10	10	10	8	8	7	7	7
Time	05:15	01:50	22:25	18:55	15:20	04:35	01:10	21:45	18:10	14:35
Col. depth (m)	10	40	40	60	70	15	40	40	60	70
Volume (cc)	1.5	8.5	3.0	14.0	18.0	2.0	11.0	3.8	6.5	11.0
Biomass (mg/m ³)	436.56	108.83	54.77	111.75	221.78	75.02	21.92	82.06	124.62	173.90
Copepoda	84	3024	483	6592	4600	28	92	390	1388	2144
Chaetognatha	2	24	4	8	32	74	17	126	416	292
Amphipoda	0	1	0	1	5	0	0	5	7	7
Euphausia	28	560	89	976	100	6	2	22	15	64

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	10	10	8	8	8	17	17	17	17	17
Time	13:50	10:25	19:00	15:25	11:40	13:35	10:10	06:40	03:05	
Col. depth (m)	15	40	45	60	75	15	40	40	60	
Volume (cc)	2.0	2.0	10.0	2.5	1.0	0.1	1.0	1.0	1.0	
Biomass (mg/m ³)	36.44	58.13	100.97	20.18	5.12	7.67	8.03	3.03	20.21	
Copepoda	63	113	129	103	42	2	57	45	169	
Chaetognatha	78	162	166	100	31	5	61	19	64	
Amphipoda	0	1	1	0	0	0	0	1	0	
Euphausia	5	27	20	3	1	2	4	11	11	

309 선 부유생물 조사표
Plankton Data, Line 309

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	19	19	22	22	22	16	16	16	16	16
Time	07:55	11:15	09:20	12:55	16:30	06:00	09:20	12:45	16:20	19:55
Col. depth (m)	25	50	60	60	80	20	50	60	60	80
Volume (cc)	2.5	4.0	4.5	5.0	8.5	3.0	8.0	8.5	1.0	1.0
Biomass (mg/m ³)	61.74	60.42	63.75	52.69	69.17	154.15	157.12	180.82	7.23	16.49
Copepoda	240	1030	544	374	78	348	770	410	45	290
Chaetognatha	69	380	216	320	682	55	182	290	4	1
Amphipoda	0	0	1	6	0	1	1	1	0	1
Euphausia	5	6	3	50	80	4	5	2	12	0

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	12	12	12	12	12	8	8	8	8	8
Time	07:00	10:20	13:45	17:20	20:55	08:40	12:00	15:25	19:05	22:45
Col. depth (m)	20	40	60	60	70	20	50	60	60	70
Volume (cc)	0.2	1.0	10.5	11.5	13.0	2.5	5.5	8.5	5.0	2.0
Biomass (mg/m ³)	3.10	92.45	205.16	247.70	235.76	115.53	129.14	97.63	47.00	11.77
Copepoda	3	189	3300	6576	4000	133	1248	724	306	59
Chaetognatha	0	2	3	0	8	269	60	132	210	11
Amphipoda	0	0	2	10	5	0	3	3	2	0
Euphausia	1	11	50	0	100	0	0	28	1	4

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	10	12	15	15	16	17	17	18	18	18
Time	17:45	07:20	17:00	20:35	00:15	17:35	20:55	00:20	03:55	07:30
Col. depth (m)	20	50	60	60	75	20	50	60	60	70
Volume (cc)	1.0	1.0	1.0	10.5	1.5	0.5	0.5	1.0	1.0	0.5
Biomass (mg/m ³)	86.22	36.76	23.25	114.62	10.83	19.84	6.79	18.52	91.24	2.90
Copepoda	12	141	133	1800	31	1	30	14	9	2
Chaetognatha	72	141	64	1088	51	23	25	12	9	27
Amphipoda	0	0	0	0	0	0	0	0	0	0
Euphausia	5	36	6	7	1	1	1	6	0	0

310 선 부유생물 조사표
Plankton Data, Line 310

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	23	23	23	23	17	17	17	17
Time	11:35	08:05	04:30	00:50	15:10	11:35	08:00	04:15
Col. depth (m)	25	70	80	90	20	60	70	80
Volume (cc)	3.5	9.5	4.5	7.5	4.0	9.5	7.5	10.4
Biomass (mg/m ³)	25.77	55.34	62.85	71.19	142.96	116.06	188.34	170.88
Copepoda	92	1060	585	680	230	790	390	481
Chaetognatha	131	368	304	566	104	200	208	381
Amphipoda	2	7	5	4	6	7	1	4
Euphausia	55	80	20	80	14	50	70	87

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	13	13	13	13	9	9	9	9
Time	15:55	12:25		05:10	18:20	14:50	11:10	07:20
Col. depth (m)	20	60		80	20	60	70	80
Volume (cc)	10.0	8.0		8.5	3.0	9.0	1.8	1.8
Biomass (mg/m ³)	586.94	257.90		94.69	182.96	155.74	19.12	14.06
Copepoda	750	1053		2448	168	1184	112	284
Chaetognatha	1	10		0	74	140	206	60
Amphipoda	132	88		32	0	1	4	4
Euphausia	1	10		0	10	21	6	4

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	16	16	16	16	19	18	18	18
Time	19:30	16:00	12:25	08:40	02:45	23:10	19:35	15:50
Col. depth (m)	20	60	75	80	20	60	70	80
Volume (cc)	5.5	25.0	5.5	7.5	2.0	2.5	2.0	0.5
Biomass (mg/m ³)	233.64	339.42	34.44	79.07	52.99	15.46	47.47	11.62
Copepoda	242	1466	261	506	121	53	77	22
Chaetognatha	192	704	108	164	98	72	101	12
Amphipoda	2	1	0	0	0	0	6	0
Euphausia	10	30	5	16	1	11	16	1

311선 부유생물 조사표
Plankton Data, Line 311

Month	Feb.			Apr.		
Station	05	07	09	05	07	09
Date	23	23	24	17	21	21
Time	18:30	22:40	02:20	22:05	06:40	10:20
Col. depth (m)	70	80	85	60	80	80
Volume (cc)	4.8	6.5	2.5	14.0	12.5	3.0
Biomass (mg/m ³)	71.83	5.94	65.13	283.29	183.71	44.20
Copepoda	307	190	134	530	670	625
Chaetognatha	133	168	148	0	0	0
Amphipoda	1	0	0	5	3	0
Euphausia	40	66	1	218	120	4

Month	Jun.			Aug.		
Station	05	07	09	05	07	09
Date	13	18	18	10	11	11
Time	22:55	17:40	21:25	01:10	07:55	11:40
Col. depth (m)	60	80	70	70	80	70
Volume (cc)	5.5	11.0	4.5	3.0	2.5	3.0
Biomass (mg/m ³)	138.95	178.77	85.11	30.04	40.06	17.24
Copepoda	895	850	950	157	604	218
Chaetognatha	59	84	200	118	140	294
Amphipoda	10	7	20	0	24	3
Euphausia	50	145	184	4	28	2

Month	Oct.			Dec.		
Station	05	07	09	05	07	09
Date	17	17	17	19	21	22
Time	02:20	06:40	10:25	09:30	21:00	00:45
Col. depth (m)	70	85	75	70	80	80
Volume (cc)	0.5	7.5	9.5	3.0	0.5	7.0
Biomass (mg/m ³)	4.40	68.71	135.30	25.44	19.08	61.80
Copepoda	15	494	505	143	111	370
Chaetognatha	26	546	192	137	27	262
Amphipoda	0	0	1	4	5	1
Euphausia	2	14	35	4	2	7

312 선 부유생물 조사표
Plankton Data, Line 312

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	24	24	24	24	22	22	21	21
Time	22:50	19:15	14:55	11:20	07:00	03:25	23:05	19:25
Col. depth (m)	70	80	90	80	60	80	80	80
Volume (cc)	1.5	3.0	2.0	4.0	4.0	0.5	2.0	2.0
Biomass (mg/m ³)	3.03	20.37	15.66	41.26	20.49	25.67	10.37	58.16
Copepoda	370	1072	871	1743	1423	143	880	196
Chaetognatha	46	157	71	262	66	15	15	20
Amphipoda	0	0	0	2	2	0	1	0
Euphausia	9	3	3	15	47	0	0	0

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	19	19	19	19	12	12	12	11
Time	18:15	14:40	10:15	06:35	08:30	04:55	00:30	20:55
Col. depth (m)	60	80	80	80	60	80	80	80
Volume (cc)	15.0	42.0	15.0	21.0	3.5	2.5	5.0	4.8
Biomass (mg/m ³)	392.33	760.59	326.25	628.86	74.36	33.51	22.88	31.72
Copepoda	600	1030	2921	650	1448	592	596	408
Chaetognatha	24	142	267	202	456	176	552	788
Amphipoda	2	5	5	14	2	0	0	4
Euphausia	585	2280	520	780	3	12	20	8

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	18	18	17	17	22	22	22	22
Time	07:25	03:45	23:20	19:40	21:30	17:50	13:25	09:45
Col. depth (m)	60	80	80	80	60	80	80	80
Volume (cc)	3.5	2.0	1.5	4.5	4.0	3.0	8.0	8.0
Biomass (mg/m ³)	47.54	26.05	16.17	40.69	51.00	27.77	73.96	56.97
Copepoda	241	91	32	255	71	62	164	371
Chaetognatha	143	27	39	73	24	11	397	383
Amphipoda	6	20	0	1	0	0	2	2
Euphausia	8	1	1	2	17	20	13	10

해양조사연보 (제 29 권)

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1982 년 3 월 20 일 발행

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